



**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE**  
(UGC-AUTONOMOUS INSTITUTION)

Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi  
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NBA Accredited - B.Tech. (CIVIL, CSE, ECE, EEE, MECH, CST), MBA & MCA



**DEPARTMENT OF COMPUTER SCIENCE & TECHNOLOGY**

Batch: 2021 - 25

AY: 2024-25

B.Tech IV Year II Semester (R20) Project Work and Internship – 20CST703

**Project Titles**

| S.No. | Batch No. | Roll No    | Guide Name               | Project Title                                                                                                                                 |
|-------|-----------|------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | 3         | 21691A2803 | Mr. L. Arul Jaya Prakash | Blockchain and Biometric Security for Secure E-Voting Systems                                                                                 |
| 2     |           | 21691A2840 |                          |                                                                                                                                               |
| 3     |           | 21691A2853 |                          |                                                                                                                                               |
| 4     |           | 21691A2866 |                          |                                                                                                                                               |
| 5     | 7         | 21691A2807 | Mr. P. Lakshmiramana     | An Automated System for Hand Written Descriptive Answer Evaluation using LSTM , GRU and NLP                                                   |
| 6     |           | 21691A2808 |                          |                                                                                                                                               |
| 7     |           | 21691A2845 |                          |                                                                                                                                               |
| 8     |           | 21691A2848 |                          |                                                                                                                                               |
| 9     | 10        | 21691A2810 | Mr. P. Lakshmiramana     | An Integrated Web-Based Solution for Streamlining Academic Workflow, Student-Faculty Interaction, and Administrative Processes                |
| 10    |           | 21691A2812 |                          |                                                                                                                                               |
| 11    |           | 21691A2823 |                          |                                                                                                                                               |
| 12    |           | 22695A2803 |                          |                                                                                                                                               |
| 13    | 14        | 21691A2814 | Mr. Y. Ravi Raju         | Real-Time Soil Moisture Management System for Efficient Water Usage in Small Holder Farming                                                   |
| 14    |           | 21691A2831 |                          |                                                                                                                                               |
| 15    |           | 21691A2859 |                          |                                                                                                                                               |
| 16    |           | 21691A2861 |                          |                                                                                                                                               |
| 17    | 18        | 21691A2818 | Mr. Ashok. K             | Attention based PCOS detection by ultrasound image classification using Deep learning                                                         |
| 18    |           | 21691A2815 |                          |                                                                                                                                               |
| 19    |           | 21691A2819 |                          |                                                                                                                                               |
| 20    |           | 21691A2838 |                          |                                                                                                                                               |
| 21    | 20        | 21691A2820 | Mr. Firoze khan Pathan   | Multi-Class Lung Nodule Classification and Localization for Cancer Detection                                                                  |
| 22    |           | 21691A2824 |                          |                                                                                                                                               |
| 23    |           | 21691A2826 |                          |                                                                                                                                               |
| 24    |           | 21691A2844 |                          |                                                                                                                                               |
| 25    | 21        | 21691A2821 | Dr. S. Jansi             | Analysis of Feature Extraction and Classification Performance in Smart Mobility Driven Hand Gesture Art System for Human Computer Interaction |
| 26    |           | 21691A2806 |                          |                                                                                                                                               |
| 27    |           | 21691A2855 |                          |                                                                                                                                               |
| 28    | 32        | 21691A2832 | Mr. Junnubabu Noorbhasha | Scalable and flexible approach to knowledge-Based VQA with LLM's                                                                              |
| 29    |           | 21691A2813 |                          |                                                                                                                                               |
| 30    |           | 21691A2835 |                          |                                                                                                                                               |
| 31    |           | 22695A2802 |                          |                                                                                                                                               |
| 32    | 33        | 21691A2833 | Ms. Lakshmi B            | Hybrid Machine Learning Model for Efficient Botnet Attack Detection in IoT Environment                                                        |
| 33    |           | 21691A2841 |                          |                                                                                                                                               |
| 34    |           | 21691A2843 |                          |                                                                                                                                               |
| 35    |           | 22695A2806 |                          |                                                                                                                                               |

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| S.No. | Batch No. | Roll No    | Guide Name              | Project Title                                                                                                |
|-------|-----------|------------|-------------------------|--------------------------------------------------------------------------------------------------------------|
| 36    | 34        | 21691A2834 | Mr. Koppiseti Giridhar  | Helmet System Using IOT for Enhancing Rider Safety                                                           |
| 37    |           | 21691A2850 |                         |                                                                                                              |
| 38    |           | 21691A2865 |                         |                                                                                                              |
| 39    |           | 22695A2804 |                         |                                                                                                              |
| 40    | 37        | 21691A2837 | Mr. K. Bhanurajeshnaidu | Enhancing resource utilization in cloud computing with machine learning- based predictive scaling            |
| 41    |           | 21691A2811 |                         |                                                                                                              |
| 42    |           | 21691A2836 |                         |                                                                                                              |
| 43    |           | 21691A2858 |                         |                                                                                                              |
| 44    | 42        | 21691A2842 | Mr. Ashok Dasari        | Integrating Hybrid Deep Learning with Explainable AI for Resilient Cybersecurity in Deepfake Audio Detection |
| 45    |           | 21691A2804 |                         |                                                                                                              |
| 46    |           | 21691A2816 |                         |                                                                                                              |
| 47    |           | 21691A2828 |                         |                                                                                                              |
| 48    | 46        | 21691A2846 | Mr. D. Kasi Viswanath   | Solving Selective clustered traveling salesman problem using Hyper-heuristic                                 |
| 49    |           | 21691A2827 |                         |                                                                                                              |
| 50    |           | 21691A2847 |                         |                                                                                                              |
| 51    |           | 21691A2851 |                         |                                                                                                              |
| 52    | 57        | 21691A2857 | Ms. Lakshmi B           | Advanced Security in digital forensics: Authenticated storage with key based encryption                      |
| 53    |           | 21691A2829 |                         |                                                                                                              |
| 54    |           | 21691A2856 |                         |                                                                                                              |
| 55    |           | 22695A2807 |                         |                                                                                                              |
| 56    | 60        | 21691A2860 | Dr. R. Manikandan       | Enhanced Alzheimer's Disease Diagnosis using Deep Learning                                                   |
| 57    |           | 21691A2817 |                         |                                                                                                              |
| 58    |           | 21691A2854 |                         |                                                                                                              |
| 59    |           | 21691A2863 |                         |                                                                                                              |
| 60    | 62        | 21691A2862 | Mr. Firoze khan Pathan  | Advanced diabetic retinopathy detection using federated learning approaches                                  |
| 61    |           | 21691A2802 |                         |                                                                                                              |
| 62    |           | 21691A2849 |                         |                                                                                                              |
| 63    |           | 21691A2864 |                         |                                                                                                              |
| 64    | LE-05     | 22695A2805 | Mr. N. Saikiran         | Enhanced Cyber Phishing website Detection using a stacked classifier combining ML & DL                       |
| 65    |           | 21691A2805 |                         |                                                                                                              |
| 66    |           | 22695A2801 |                         |                                                                                                              |
| 67    | C7        | 20691A28C7 | Mrs. P. Jayaselvi       | A Novel Frame work for decentralized healthcare resource allocation using smart contracts                    |
| 68    |           | 20691A2803 |                         |                                                                                                              |
| 69    |           | 20691A2821 |                         |                                                                                                              |
| 70    |           | 21691A2852 |                         |                                                                                                              |
| 71    | 69        | 21691A2869 | Mrs. P. Jayaselvi       | A vision based driver drowsiness detection framework for road safety enhancement                             |
| 72    |           | 21691A2873 |                         |                                                                                                              |
| 73    |           | 21691A28D2 |                         |                                                                                                              |
| 74    |           | 22695A2812 |                         |                                                                                                              |
| 75    | 71        | 21691A2871 | Dr. Basabi Chakraborty  | Optimized Hybrid Deep Learning Ensemble for Advanced Classification and Detection of Diabetic Foot Ulcers    |
| 76    |           | 21691A2881 |                         |                                                                                                              |
| 77    |           | 21691A28A5 |                         |                                                                                                              |
| 78    |           | 21691A28B0 |                         |                                                                                                              |

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| S.No. | Batch No. | Roll No    | Guide Name              | Project Title                                                                                                                  |
|-------|-----------|------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 79    | 74        | 21691A2874 | Mrs. R. Usha            | Hybrid AI framework for detecting deepfake tweets on social media                                                              |
| 80    |           | 21691A2868 |                         |                                                                                                                                |
| 81    |           | 21691A2870 |                         |                                                                                                                                |
| 82    |           | 21691A2883 |                         |                                                                                                                                |
| 83    | 87        | 21691A2887 | Mr. Suresh D            | Improving Question Answering system using knowledge graph Integration and NLP techniques                                       |
| 84    |           | 21691A2872 |                         |                                                                                                                                |
| 85    |           | 21691A2886 |                         |                                                                                                                                |
| 86    |           | 21691A2888 |                         |                                                                                                                                |
| 87    | 92        | 21691A2892 | Mr. D. Murali           | AI - Driven Civic Issue Resolver                                                                                               |
| 88    |           | 21691A2879 |                         |                                                                                                                                |
| 89    |           | 21691A28B3 |                         |                                                                                                                                |
| 90    |           | 21691A28D0 |                         |                                                                                                                                |
| 91    | 93        | 21691A2893 | Dr. N. Praveena         | A Dynamic Donation Allocation and Validator Accountability Mechanism for Effective Charity Process using Blockchain Technology |
| 92    |           | 21691A28C1 |                         |                                                                                                                                |
| 93    |           | 21691A28C6 |                         |                                                                                                                                |
| 94    |           | 21691A28D1 |                         |                                                                                                                                |
| 95    | 95        | 21691A2895 | Mr. N. Saikiran         | Cardio-Detect: A Hybrid ML-DL technique for identifying cardiovascular diseases in ECG images                                  |
| 96    |           | 21691A2878 |                         |                                                                                                                                |
| 97    |           | 21691A28A6 |                         |                                                                                                                                |
| 98    |           | 21691A28C9 |                         |                                                                                                                                |
| 99    | 98        | 21691A2898 | Mr. V. Naveen           | Emoji, Sentiment and Emotion Aided Cyberbullying detection in hinglish                                                         |
| 100   |           | 21691A2885 |                         |                                                                                                                                |
| 101   |           | 21691A2896 |                         |                                                                                                                                |
| 102   |           | 21691A28B6 |                         |                                                                                                                                |
| 103   | A0        | 21691A28A0 | Mr. K. Bhanurajeshnaidu | High-Availability Cloud Architecture with Load Balancing and RabbitMQ Integration                                              |
| 104   |           | 21691A28A3 |                         |                                                                                                                                |
| 105   |           | 21691A28C4 |                         |                                                                                                                                |
| 106   |           | 21691A28C5 |                         |                                                                                                                                |
| 107   | A9        | 21691A28A9 | Mr. Ashok. K            | Enhancing fetal health diagnosis using GNN on CTG data                                                                         |
| 108   |           | 21691A2880 |                         |                                                                                                                                |
| 109   |           | 21691A28A7 |                         |                                                                                                                                |
| 110   |           | 21691A28A8 |                         |                                                                                                                                |
| 111   | B5        | 21691A28B5 | Mr. D. Murali           | A Digital Hub for Department Coordination                                                                                      |
| 112   |           | 21691A28A2 |                         |                                                                                                                                |
| 113   |           | 21691A28B2 |                         |                                                                                                                                |
| 114   |           | 21691A28C0 |                         |                                                                                                                                |
| 115   | B8        | 21691A28B8 | Dr. S. Jansi            | Secured monitoring of drug environmental parameters using pharmaceutical cold supply chain                                     |
| 116   |           | 21691A2889 |                         |                                                                                                                                |
| 117   |           | 21691A2899 |                         |                                                                                                                                |
| 118   | B9        | 21691A28B9 | Mr. Abdul Jaleel D      | Automating multi domain web interactions with a scalable virtual browser framework using jenkins                               |
| 119   |           | 21691A2897 |                         |                                                                                                                                |
| 120   |           | 21691A28A4 |                         |                                                                                                                                |
| 121   |           | 22695A2809 |                         |                                                                                                                                |

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|-------|-----------|------------|--------------------------|---------------------------------------------------------------------------------------------------------|
| 122   | C2        | 21691A28C2 | Mrs. R. Usha             | Automated Early Detection of Oral Cancer Using CNN-Based Multimodal Analysis                            |
| 123   |           | 21691A2875 |                          |                                                                                                         |
| 124   |           | 21691A2882 |                          |                                                                                                         |
| 125   |           | 21691A2891 |                          |                                                                                                         |
| 126   | C3        | 21691A28C3 | Mr. M. Shankar           | Smart Solar-Powered Grass Cutter with Intelligent Obstacle Detection and Navigation System              |
| 127   |           | 21691A2876 |                          |                                                                                                         |
| 128   |           | 21691A2877 |                          |                                                                                                         |
| 129   |           | 21691A2884 |                          |                                                                                                         |
| 130   | LE-08     | 22695A2808 | Mr. M. Shankar           | Robust Training Framework for Enhancing Prosthetic System Performance                                   |
| 131   |           | 21691A2894 |                          |                                                                                                         |
| 132   |           | 21691A28B1 |                          |                                                                                                         |
| 133   |           | 21691A28B7 |                          |                                                                                                         |
| 134   | LE-10     | 22695A2810 | Mr. Y. Ravi Raju         | A Big Data Platform for Handling City Population Complex Networks with Dynamic Graphs                   |
| 135   |           | 21691A28B4 |                          |                                                                                                         |
| 136   |           | 21691A28C8 |                          |                                                                                                         |
| 137   |           | 22695A2814 |                          |                                                                                                         |
| 138   | LE-11     | 22695A2811 | Dr. Basabi Chakraborty   | Integrating image classification for breast cancer detection using deep learning                        |
| 139   |           | 21691A28A1 |                          |                                                                                                         |
| 140   |           | 21691A28C7 |                          |                                                                                                         |
| 141   |           | 22695A2813 |                          |                                                                                                         |
| 142   | D4        | 21691A28D4 | Mr. Ashok Dasari         | AI and Big data Synergy: Redefining coffee commodity trading for the future precision and profitability |
| 143   |           | 21691A28D7 |                          |                                                                                                         |
| 144   |           | 21691A28H0 |                          |                                                                                                         |
| 145   |           | 21691A28I8 |                          |                                                                                                         |
| 146   | D5        | 21691A28D5 | Mr. Junnubabu Noorbhasha | Deep Learning Based Quantification of Knee Osteoarthritis Severity from X-Ray Images and clinical Data  |
| 147   |           | 21691A28H3 |                          |                                                                                                         |
| 148   |           | 21691A28H4 |                          |                                                                                                         |
| 149   |           | 21691A28H5 |                          |                                                                                                         |
| 150   | D8        | 21691A28D8 | Dr. R. Manikandan        | Efficient Test case Reduction using Grey wolf optimization Technique                                    |
| 151   |           | 21691A28F4 |                          |                                                                                                         |
| 152   |           | 21691A28G2 |                          |                                                                                                         |
| 153   |           | 21691A28H7 |                          |                                                                                                         |
| 154   | D9        | 21691A28D9 | Dr. N. Magesh Kumar      | Food recognition system for automated calorie tracking and nutrition monitoring                         |
| 155   |           | 21691A28D3 |                          |                                                                                                         |
| 156   |           | 21691A28D6 |                          |                                                                                                         |
| 157   |           | 21691A28H9 |                          |                                                                                                         |
| 158   | E2        | 21691A28E2 | Dr. N. Praveena          | A Blockchain Framework for Transparent and Efficient Agriculture Supply Chain                           |
| 159   |           | 21691A28F6 |                          |                                                                                                         |
| 160   |           | 21691A28I6 |                          |                                                                                                         |
| 161   | E4        | 21691A28E4 | Mr. D. Murali            | Academic Marks extraction using PaddleOCR and entry application system with excel Integration           |
| 162   |           | 21691A28F5 |                          |                                                                                                         |
| 163   |           | 21691A28G6 |                          |                                                                                                         |
| 164   |           | 21691A28G7 |                          |                                                                                                         |

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|-------|-----------|------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 165   | E5        | 21691A28E5 | Dr. N. Magesh Kumar      | AI Art Conductor: Bridging Image Creation and Modification with SAM and Diffusion                                              |
| 166   |           | 21691A28E6 |                          |                                                                                                                                |
| 167   |           | 21691A28F8 |                          |                                                                                                                                |
| 168   |           | 21691A28G9 |                          |                                                                                                                                |
| 169   | F0        | 21691A28F0 | Mr. D. Kasi Viswanath    | Detecting Student Engagement in Online Classes using RCNN-Based Facial Expression Analysis                                     |
| 170   |           | 21691A28I5 |                          |                                                                                                                                |
| 171   |           | 21691A28J3 |                          |                                                                                                                                |
| 172   |           | 21691A28J5 |                          |                                                                                                                                |
| 173   | F3        | 21691A28F3 | Mr. V. Naveen            | Exploring Zero-Shot Learning in NLP for Cross-Domain Applications                                                              |
| 174   |           | 21691A28E9 |                          |                                                                                                                                |
| 175   |           | 21691A28H6 |                          |                                                                                                                                |
| 176   |           | 21691A28I7 |                          |                                                                                                                                |
| 177   | F7        | 21691A28F7 | Dr. K. Dinesh            | A Hybrid Quantum-Heuristic Feature selection Approach using Grover's Algorithm, PSO and ACO                                    |
| 178   |           | 21691A28E8 |                          |                                                                                                                                |
| 179   |           | 21691A28F9 |                          |                                                                                                                                |
| 180   | G1        | 21691A28G1 | Dr. K. Dinesh            | Feature Extraction using Quantum Enhanced Harmony Search                                                                       |
| 181   |           | 21691A28E7 |                          |                                                                                                                                |
| 182   |           | 21691A28J2 |                          |                                                                                                                                |
| 183   | I2        | 21691A28I2 | Mr. L. Arul Jaya Prakash | An Improved Method For Blood Group Prediction Based On Fingerprint Map Reading                                                 |
| 184   |           | 21691A28G3 |                          |                                                                                                                                |
| 185   |           | 21691A28H1 |                          |                                                                                                                                |
| 186   |           | 21691A28I0 |                          |                                                                                                                                |
| 187   | I4        | 21691A28I4 | Mr. V. Naveen            | Eduquest game development using unreal engine                                                                                  |
| 188   |           | 21691A28H8 |                          |                                                                                                                                |
| 189   |           | 21691A28I3 |                          |                                                                                                                                |
| 190   | 19        | 21691A28I9 | Mr. Abdul Jaleel D       | Implementation of a Cryptographic Algorithm in a Dynamic QR                                                                    |
| 191   | J1        | 21691A28J1 | Mr. Abdul Jaleel D       | AI-Driven Car: Real-Time Detection of Road Anomalies and Lane Markings                                                         |
| 192   |           | 21691A28E1 |                          |                                                                                                                                |
| 193   |           | 21691A28J0 |                          |                                                                                                                                |
| 194   |           | 21691A28J4 |                          |                                                                                                                                |
| 195   | J7        | 21691A28J7 | Dr. K. Dinesh            | Feature Selection Analysis using Quantum Machine Learning                                                                      |
| 196   |           | 21691A28E0 |                          |                                                                                                                                |
| 197   |           | 21691A28G0 |                          |                                                                                                                                |
| 198   |           | 21691A28H2 |                          |                                                                                                                                |
| 199   | J8        | 21691A28J8 | Dr. R. Manikandan        | Test Case Reduction Using Particle Swarm Optimization in Regression Testing                                                    |
| 200   |           | 21691A28G8 |                          |                                                                                                                                |
| 201   |           | 21691A28I1 |                          |                                                                                                                                |
| 202   |           | 22695A28I7 |                          |                                                                                                                                |
| 203   | LE-20     | 22695A2820 | Mr. Suresh D             | Integrating Artificial Intelligence with Cloud Platforms to Optimize Performance, Scalability in Distributed Computing Systems |
| 204   |           | 22695A28I5 |                          |                                                                                                                                |
| 205   |           | 22695A28I8 |                          |                                                                                                                                |
| 206   |           | 22695A28I9 |                          |                                                                                                                                |
| 207   | LE-22     | 22695A2822 | Mr. Koppiseti Giridhar   | E-voting System Using Blockchain Technology                                                                                    |
| 208   |           | 21691A28G5 |                          |                                                                                                                                |
| 209   |           | 22695A28I6 |                          |                                                                                                                                |
| 210   |           | 22695A2821 |                          |                                                                                                                                |

*D. Suresh*  
Project Coordinator

*[Signature]*  
HOD