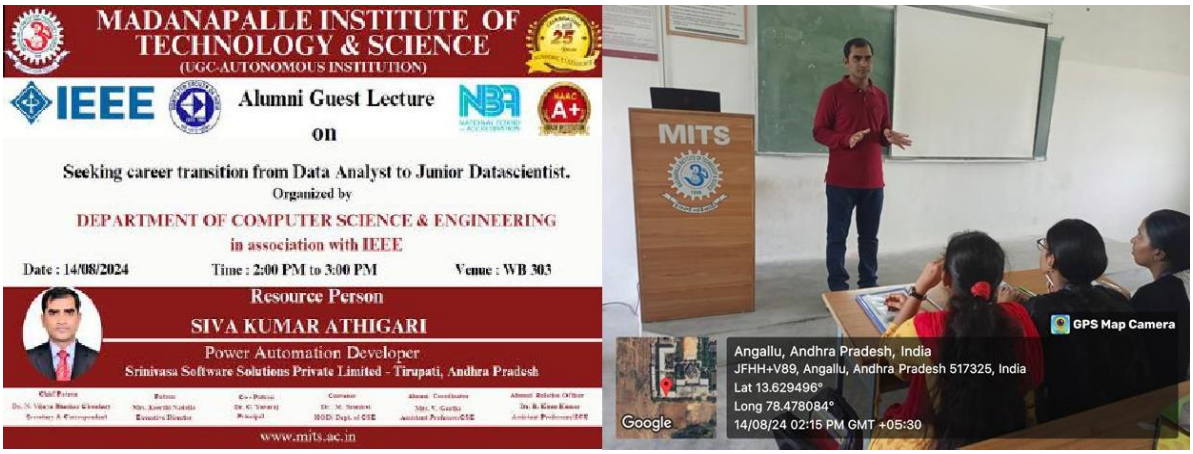
A Report on Alumni Guest Lecture on
"Seeking career transition from Data Analyst to Junior Data Scientist"
Organised by Department of Computer Science & Engineering
on 14.08.2024



Organised & Report Submitted by: Mrs. V. Geetha, Assistant Professor, Department of Computer Science & Engineering.
Resource Person: Mr. A. Siva Kumar (Alumni of CSE 2011-2013 Batch), Working as Power Developer at Srinivasa Software Solutions Private Limited - Tirupati.
Participants: II Year B. Tech – Computer Science & Engineering Students.
Mode of Conduct: Offline.
Venue and Time: WB – 303 & 2:00 PM to 3:00 PM
Report Received on 28.08.2024.

A Guest Lecture on "Seeking career transition from Data Analyst to Junior Data Scientist" was organized by the Department of Computer Science & Engineering for II B. Tech students.

The inauguration of the Guest Lecture was started at 2:00 P.M in WB – 303, the dignitaries were Dr. M. Sreedevi, HoD – CSE, A. Siva Kumar, Working as Power Automation Developer, Srinivasa Software Solutions Pvt. Limited., Tirupati, Dr. R. Kiran Kumar, Alumni Relation Officer, Mrs. V. Geetha, Department Alumni Coordinator.

The lecture was started with opening remarks by, Dr. M. Sreedevi who thanked Management for this great initiation of creating an opportunity to invite the Alumni members of the institute and enabling them to interact with the students and enlightening them with the current developments in the corporate world. Dr. R. Kiran Kumar has shown pleasure and promised to conduct many more lectures in future for the benefit of the students.

Mrs. V. Geetha introduced the speaker and invited him to share his valuable experiences to the students. The number of students participated in the lecture were around 60.

Data Analyst to Data scientist:

- To transition from a data analyst to a data scientist, one should pursue education and training in advanced statistical analysis, machine learning, programming, and data visualization. Gain hands-on experience by working on projects requiring advanced analytical skills and collaborating with data scientists.
- By developing a strong foundation in mathematics and statistics, learning programming languages for data science, understanding machine learning algorithms, building a portfolio of projects, and networking with other data scientists, you can take the necessary steps to make the transition from data analyst to data.
- Transitioning from a data analyst to a data scientist can be a natural next step for many professionals in the field of data analytics. As a data analyst, you may already have a strong foundation in statistics, programming, and database management, but becoming a data scientist requires a more in-depth understanding of machine learning algorithms and the ability to use these algorithms to solve complex problems. In this article, we will explore the steps you can take to make the transition from data analyst to data scientist.

Develop a Strong Foundation in Statistics:

One of the key differences between a data analyst and a data scientist is the level of mathematical and statistical knowledge required for the job. As a data analyst, you may already know a lot about these topics, but to become a data scientist, you will need to learn more about advanced math concepts and statistics. This includes topics such as linear algebra, calculus, probability theory, and statistical inference.
You can build a strong foundation in math and statistics by learning the basics, practicing often, and asking for help when you need it. Start by understanding the basics of the subject, such as basic algebra and calculus, and review these concepts as needed. Practice regularly by solving problems. Finally, don't be afraid to ask for help if you are struggling. Seek out resources such as tutors and online forums to get the guidance you need to understand the material. With the right approach, you can develop a strong foundation in mathematics and statistics.

Learn Python or R:

Another important skill for a data scientist is proficiency in programming languages that are commonly used in data science, such as Python and R. These languages are used to clean, manipulate, and analyze large datasets, and they also provide the tools and libraries necessary for implementing machine learning algorithms.
To learn programming languages for data science, it is important to start by understanding the fundamentals of the language. This includes learning the syntax, data types, and basic control structures. Once the fundamentals are understood, it is important to practice writing code and solving problems in the language of your choice. Additionally, exploring libraries and frameworks in the language of your choice can give you a much needed head start.

Understand Machine Learning Algorithms:

One of the key responsibilities of a data scientist is to use machine learning algorithms to solve complex problems. These algorithms allow a computer to learn from data without being explicitly programmed, and they are used in a wide range of applications, from predicting customer behavior to identifying medical diagnoses.

Build a Portfolio of Projects:

As a data scientist, you will need to demonstrate your skills and expertise through a portfolio of projects that showcase your ability to solve complex problems using machine learning algorithms. This portfolio can include projects that you have completed as part of your education or as part of your work experience, as well as independent projects that you have completed on your own.
To build a strong portfolio, you should focus on projects that highlight your ability to use machine learning algorithms to solve real-world problems. This can include projects that involve cleaning and manipulating large datasets, developing predictive models, or implementing machine learning algorithms to solve complex problems.

Network and Connect with Other Data Scientists:

Networking and building connections with other data scientists can be an important step in your transition from data analyst to data scientist. Through networking, you can learn about the latest developments in the field, gain valuable insights from experienced data scientists.

Conclusion:

In conclusion, transitioning from a data analyst to a data scientist is a natural next step for many professionals in the field of data analytics. By developing a strong foundation in mathematics and statistics, learning programming languages for data science, understanding machine learning algorithms, building a portfolio of projects, and networking with other data scientists, you can take the necessary steps to make the transition from data analyst to data scientist. This can open up new opportunities and challenges, and provide a rewarding career in the field of data science.

The outcome of the programme:

The program outcomes for students attending a webinar on " Seeking career transition from Data Analyst to Junior Data Scientist " could include several educational and skill-based benefits.

- Gain a deeper understanding of statistical theories and methods.
- Learn to apply statistical models such as regression, classification, clustering, and time series analysis.
- Understand the fundamentals of machine learning, including supervised and unsupervised learning.
- Develop skills in building, evaluating, and tuning machine learning models using Python or R.
- Learn about different algorithms such as decision trees, random forests, neural networks, and support vector machines.

The session is completed at 3:10 P.M, and he clarified the queries of enthusiastic young minds with a great zeal during the interaction time. The resource person was honoured by a token of respectable appreciation by Dr. M. Sreedevi CSE – HOD, Dr. R. Kiran Kumar, Alumni Relation Officer and all faculty members of the department.

Vote of Thanks:

Mrs. V. Geetha proposed a vote of thanks to the Resource person, HOD and Alumni Relations Officer for attending the function. She extended her thanks to the Principal, and the Management for their support to conduct the training.