

A Report on Online Guest Lecture on
“Launching Your Tech Career: From Front-End Development to Data Analytics Mastery”
Organised by Department of CSE- Data Science
in association with IIC, MITS
Date: 22.11.2024



Report Submitted by: Dr. N. Komal Kumar, Assistant Professor, Department of CSE (Data Science).

Resource Person Details: Ms. Bhavana Reddy, Senior Technical Analyst at Hexaware Technologies, Chennai and Mr. Raghul, Senior Security Consultant at Ernst & Young Global Limited, Chennai.

Attendance: 67 participants from II & III CSE (Data Science) Department.

Venue: Seminar Hall B

Mode of Conduct: Online

Report Received on 23.11.2024.

Introduction:

The guest lecture on the topic **“Launching Your Tech Career: From Front-End Development to Data Analytics Mastery”** was organized on 22nd November 2024 from 2:00 PM to 4:00 PM. The session featured two distinguished professionals from the tech industry: **Ms. Bhavana Reddy**, Senior Technical Analyst at **Hexaware Technologies, Chennai** and **Mr. Raghul**, Senior Security Consultant at **Ernst & Young Global Limited, Chennai**.

Event Proceedings:

Welcome Speech:

The session commenced with a **welcome speech** delivered by **Dr. N. Komal Kumar**, who warmly welcomed the guest speakers, faculty members, and students. He expressed the significance of the topic in today’s fast-evolving tech landscape and highlighted how such sessions help bridge the gap between academia and industry. Dr. Kumar emphasized the importance of gaining hands-on experience and practical knowledge to succeed in the tech field.



Address by HoD:

Next, **Dr. S. Kusuma**, the Head of the Department, addressed the audience. She spoke about the ever-changing nature of the tech industry, stressing the growing demand for professionals skilled in both front-end development and data analytics. Dr. Kusuma encouraged the students to take full advantage of the learning opportunities provided through this lecture to enhance their technical capabilities and career prospects.

Address by IIC Coordinator:

Following Dr. Kusuma, **Dr. S. Gopalakrishnan**, the IIC Coordinator, addressed the gathering. He discussed the role of industry-academia collaborations in shaping the future of students. Dr. Gopalakrishnan highlighted how the institution continually strives to connect students with industry experts through such lectures and workshops.

Session 1: Front-End Development by Ms. Bhavana Reddy

Ms. Bhavana Reddy, Senior Technical Analyst at **Hexaware Technologies**, took the stage first to share her insights on **Front-End Development**. The session was both informative and interactive, covering the following topics:

Introduction to HTML 5.0: Ms. Reddy began by introducing the core concepts of **HTML 5.0**, explaining how it is a fundamental technology for web development. She emphasized the importance of HTML 5 in creating interactive and user-friendly web pages. Students were introduced to the new features and advancements in HTML 5.0 that distinguish it from previous versions.

Basic Tags: Ms. Reddy then explained the **basic tags** in HTML, such as `<html>`, `<head>`, `<body>`, `<div>`, and ``. She demonstrated their usage with examples and emphasized their role in structuring a webpage's content.

Microsoft Visual Studio: The session continued with a detailed explanation of **Microsoft Visual Studio**. Ms. Reddy discussed how this integrated development environment (IDE) aids developers in building web applications. She highlighted its key features, including debugging tools, coding assistance, and multi-language support, which make it a popular choice for developers.

Developer Tools: The last part of her session focused on **developer tools**. She introduced students to the built-in browser developer tools used for debugging and optimizing web pages. She provided real-time examples and demonstrated how these tools can be leveraged to inspect web pages, modify content, and improve page performance.

Ms. Reddy concluded her session by encouraging students to start experimenting with web development tools and resources to gain hands-on experience in front-end development.

Session 2: Data Analytics by Mr. Raghul

After a short break, **Mr. Raghul**, Senior Security Consultant at **Ernst & Young Global Limited**, began his session on **Data Analytics**. His presentation covered the following key topics:

Basics of Data Analytics: Mr. Raghul started by explaining the **basics of data analytics**, emphasizing its role in extracting valuable insights from raw data. He discussed the various stages of data analytics, including data collection, cleaning, analysis, and visualization. Students learned about the importance of data analytics in decision-making processes across industries.

Real-Time Examples: To make the topic more relatable, Mr. Raghul provided real-world examples of how data analytics is applied in various sectors such as finance, healthcare, and e-commerce. He shared insights into how organizations use data to improve operational efficiency, predict trends, and create business strategies.

Hands-On with Real-Time Data Set in Splunk Tool: The highlight of Mr. Raghul's session was the **hands-on demonstration** using the **Splunk Tool**, a popular platform for data analysis and monitoring. He walked the students through analyzing a real-time dataset, showing them how to extract, filter, and visualize data using Splunk. Students were given a practical understanding of how data analytics tools are used in industry settings to handle large volumes of data.

Mr. Raghul concluded his session by encouraging the students to explore data analytics tools and platforms, highlighting the growing demand for professionals skilled in data analysis.

Conclusion and Q&A Session:

The guest lecture concluded with an **interactive Q&A session**, where students had the opportunity to ask questions and clarify doubts with both speakers. The students actively participated, asking insightful questions about front-end technologies, data analytics, and career opportunities in the tech industry.

Dr. N. Komal Kumar thanked both Ms. Bhavana Reddy and Mr. Raghul for their valuable contributions to the session and expressed his appreciation for their time and expertise. He also encouraged the students to apply the knowledge gained during the session in their academic and professional journeys.

Outcomes:

- **Increased Understanding of Front-End Technologies:** Students gained a deeper understanding of the fundamentals of **HTML 5.0** and how it is used in building modern, interactive web applications.
- **Familiarity with Development Tools:** The lecture introduced students to **Microsoft Visual Studio** and **developer tools** in web browsers, giving them the practical knowledge to use these tools effectively in their projects.
- **Enhanced Awareness of Industry-Relevant Skills:** Students were exposed to the skills required for **front-end development** and **data analytics**, giving them a clearer idea of the technical competencies needed to succeed in the tech industry.
- **Hands-on Experience with Data Analytics Tools:** Through the demonstration of the **Splunk Tool**, students learned how to analyse real-time datasets, equipping them with a practical skill they can apply in internships or future jobs.
- **Real-World Application Insights:** Mr. Raghul shared real-time examples of **data analytics** applications in various industries like finance and healthcare, providing students with insights into how data-driven decisions impact business operations.
- **Introduction to Data Analytics Process:** Students became familiar with the **data analytics workflow**, from data collection and cleaning to analysis and visualization, helping them understand the end-to-end process of data-driven decision-making.
- **Exposure to Career Opportunities in Tech::** Both speakers highlighted the diverse career paths available in **front-end development** and **data analytics**, inspiring students to consider these fields for future employment.
- **Practical Application of Theoretical Knowledge:** The session bridged the gap between theoretical knowledge and its application in the real world, motivating students to work on hands-on projects and improve their technical proficiency.
- **Encouragement of Self-Learning:** Both speakers encouraged students to explore and experiment with development and analytics tools independently, fostering a mindset of continuous learning and self-improvement.
- **Networking and Industry Insights:** The guest lecture provided an opportunity for students to interact with industry experts, asking questions and gaining valuable insights into the current trends and demands in the tech industry.

These outcomes collectively contributed to enhancing the students' technical knowledge, career readiness, and interest in pursuing further education and training in tech fields.