

**A Report on Alumni Guest Lecture titled  
“Application and Importance of Data Science in Mechanical Engineering”  
Organised by Department of Mechanical Engineering  
in association with MITS Alumni Welfare Association Cell  
on 27.11.2024**



**Report Submitted by: Mr. Muthulakshmanan, Assistant professor, Department of Mechanical Engineering.**  
**Resource Person Details: Mr. Nagabhushanam, Managing Director, MindX Solutions.**  
**Mode of Conduct: Offline**  
**Time: 10:00 AM**  
**Venue: Auditorium**  
**Report Received on 04.12.2024.**

### **Introduction**

The Department of Mechanical Engineering organized an insightful alumni guest lecture on November 27, 2024, at 10:00 AM in the auditorium on the topic “**Application and Importance of Data science in Mechanical Engineering**”. The event was graced by the presence of Mr. Nagabhushanam, an accomplished professional with over a decade of experience in the coaching industry. The session aimed to enlighten students on the growing significance of data science and its associated tools, alongside career opportunities in various analytical domains. The program began with a warm welcome to the audience, delivered by the Head of the Department Dr. S. Baskaran. The alumni event coordinator, Mr. Muthulakshmanan, introduced the chief guest, highlighting his significant contributions to the coaching industry and his commitment to student success.

### **Session Highlights**

Mr. Nagabhushanam began his lecture by emphasizing the vast potential and applications of **data science** in today’s industrial landscape. He explained how data science serves as a bridge between technical knowledge and real-world problem-solving, playing a pivotal role in fields such as engineering, business, and technology.

### **Key Topics Covered**

#### **Applications of Data Science:**

- Importance in decision-making across industries.
- Real-world examples illustrating its impact.

#### **Technological Tools Discussed:**

Mr. Nagabhushanam provided an overview of various tools and domains that are essential for a successful career in data science and related fields, including:

- **Full-Stack Development:** Python and Java.
- **Software Testing:** Importance in quality assurance and application development.
- **Data Science Tools:**
  - GenAI (Generative Artificial Intelligence).
  - Data Analyst and Business Analyst roles.
  - Visualization platforms like **PowerBI** and **Tableau**.
- **Cloud Computing:** Hands-on insights into **Azure** and **AWS** training.

### **Career Insights**

Drawing from his 10 years of coaching experience, Mr. Nagabhushanam shared anecdotes of his journey in mentoring over 1,000 students, many of whom have secured their dream jobs. He outlined the steps to excel in these domains and highlighted the importance of upskilling, resilience, and hands-on practice.

### **Student Interaction**

The session included an interactive segment where students eagerly engaged with the guest speaker. Topics ranged from clarifying technical concepts to exploring career opportunities in the data science domain. The students expressed their appreciation for Mr. Nagabhushanam's practical insights and found his guidance immensely valuable.

### **Conclusion**

The event concluded with a formal vote of thanks delivered by the coordinator, Mr. Muthulakshmanan. He expressed gratitude to Mr. Nagabhushanam for sharing his expertise and inspiring the students. Special thanks were also extended to the faculty members, organizers, and students who contributed to the success of the event.

The alumni guest lecture was a resounding success, leaving the audience motivated and better informed about the transformative potential of data science and its related technologies. The Department of Mechanical Engineering looks forward to organizing more such sessions to bridge the gap between academic learning and industrial demands.