



Bhoj Reddy Engineering College for Women

(Sponsored by Sangam Laxmibai Vidyapeet, Accredited by NAAC with A Grade approved by AICTE and affiliated to JNTUH)
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Department of Computer Science and Engineering

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Report on Two-Day Workshop “Smart Problem Solving with Machine Learning”

The Department of Computer Science and Engineering (CSE) conducted a **Two-Day Workshop on “Smart Problem Solving with Machine Learning”** for II B Tech CSE A & B students on **20 and 21 February 2026** in collaboration with the **Computer Society of India (CSI)** under the **Internal Quality Assurance Cell (IQAC)**. The workshop was organized with the objective of introducing students to machine learning concepts and enabling them to analyze data and develop intelligent solutions for real-world problems.

Banner:

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Department Computer Science and Engineering

in collaboration with
CSI Under IQAC
is organizing a

Two-Day Workshop
on
" SMART PROBLEM SOLVING
WITH MACHINE LEARNING "

FOR: II B.TECH CSE (A & B) STUDENTS

DATE : 20-21 February 2026
Time : 9:30 am - 4:30 pm
Venue : Seminar hall(WB 401)

Figure 1: Banner of the Workshop

The objective of the workshop was to introduce students to **machine learning techniques and their applications in solving real-world industrial problems**. The program aimed to enhance students' analytical

thinking and provide them with practical exposure to **data analysis and intelligent solution development**.

The resource person for the workshop was **Mr Kamalakar Pallela**, a seasoned academician and industry professional. He holds a **B.E. from University College of Engineering, Osmania University**, and gained international exposure through his **Master's studies in Leeds, UK**. He has served as a **Lecturer in reputed engineering institutions** and held leadership roles including **Vice-President – India Operations at Calopus Solutions**. He is currently **pursuing his Ph.D. in IoT and AI**, is the **Founder of HBIC Solutions**, and is actively involved in **research, innovation, and mentoring students through Bharat Innovative Technologies Trust**.

Inaugural Session

The **Inaugural Session** of the workshop was conducted on **20 February 2026** in the presence of faculty members and participating students.



Figure 2: Dignitaries at the Inaugural Session of the Workshop

The session commenced with a **Welcome Address by a CSE student**, who warmly welcomed the dignitaries, the resource person, faculty members, and all the student participants. The student briefly introduced the purpose of the workshop and emphasized the importance of gaining practical knowledge in emerging technologies such as Machine Learning.



Figure 3: Welcome Address by a III B Tech CSE student

The Head of the Department, CSE, addressed the gathering and highlighted the importance of Machine Learning in modern technology and its growing demand in industry and research. The HoD encouraged students to actively participate in the sessions and utilize the workshop to strengthen their technical skills.



Figure 4: Dr M Vinod, HoD CSE, addressed the gathering on Machine Learning

Mr G Dayakar Reddy, Vice Principal, addressed the gathering and highlighted the significance of Machine Learning in modern technological advancements. He encouraged the students to actively participate in the workshop and make the best use of the learning opportunity.



Figure 5: Mr G Dayakar Reddy, Vice Principal, delivered the inaugural address

The resource person, **Mr Kamalakar Pallela**, introduced the concept of **Smart Problem-Solving using Machine Learning** and explained how machine learning techniques can be applied to solve real-world problems across various domains.



Figure 6: Mr Kamalakar Pallela, introduced the concept of Smart Problem-Solving using Machine Learning

Day 1 Sessions – 20 February 2026

On the first day, the sessions focused on **fundamentals of Machine Learning and data analysis**.

The resource person introduced students to the **basic concepts of machine learning**, including its types and real-world applications. Students were introduced to **data preprocessing techniques**, which included cleaning, organizing, and preparing raw data for analysis.

The session also covered **Exploratory Data Analysis (EDA)**, where students learned how to understand patterns and insights from datasets using various analytical techniques.

Students actively participated in **hands-on demonstrations**, where they worked with datasets and practiced analyzing data using machine learning tools.

Day 2 Sessions – 21 February 2026

The second day focused on **advanced techniques in machine learning and model development**.

Students learned about **feature selection methods**, which help identify the most important variables in a dataset for building effective machine learning models.

The resource person also explained **model building and evaluation techniques**, demonstrating how machine learning algorithms can be applied to solve real-world industrial problems.

Practical demonstrations were conducted where students worked on **building simple machine learning models and interpreting results**. The interactive sessions allowed students to ask questions and gain deeper insights into machine learning applications.

Student Feedback

The workshop received **positive feedback from the participating students**.

Students expressed that the workshop was **highly informative and practical**, helping them understand how machine learning can be used for **real-world problem solving**. They appreciated the **clear explanations, hands-on examples, and interactive teaching approach** of the resource person.

Many students mentioned that the workshop improved their understanding of **data preprocessing, exploratory data analysis, and machine learning model development**.

Overall, students found the workshop **very useful and inspiring**, and they showed interest in exploring further learning and research in **Machine Learning and Artificial Intelligence**.



Figure 7: Students at the session



Figure 8: Students at the session



Figure 09: Resource Person explaining Students

Valedictory Session

The **Valedictory Session** was conducted on **21 February 2026** at the end of the workshop.

The session began with a **brief report on the workshop**, highlighting the objectives, sessions conducted, and key learning outcomes.

Faculty members appreciated the efforts of the resource person for delivering insightful and practical sessions.



Figure 10: Student giving Feedback



Figure 11: Student giving overview of the Two-day workshop



Figure 12: Dr M Vinod, HoD – CSE, sharing his remarks during the Valedictory Session.

The resource person, **Mr. Kamalakar Pallela**, was felicitated as a token of appreciation for sharing his knowledge and expertise with the students.



Figure 13: Resource person, Mr Kamalakar Pallela, was felicitated by Dr G Shyma Chandra Prasad

The workshop concluded with a **Vote of Thanks**, expressing gratitude to the **management, principal, HoD, resource person, faculty coordinators, and students** for their support and active participation in making the workshop successful.

Conclusion

The **Two-Day Workshop on “Smart Problem Solving with Machine Learning”** was successfully conducted and provided students with **valuable knowledge and practical exposure to machine learning techniques**.

The workshop helped students understand **how data can be analyzed and used to develop intelligent solutions for real-world problems**. The hands-on sessions enhanced their **technical skills, analytical thinking, and interest in emerging technologies**.

Overall, the workshop served as an **excellent platform for students to explore machine learning concepts and applications**, encouraging them to pursue further learning and innovation in the field of **Artificial Intelligence and Data Science**.

Dr P Deepthi
Seminars &
Workshops In-charge

Dr M Vinod
HoD-CSE