B.M.S. COLLEGE OF ENGINEERING

DEPARTMENT OF MACHINE LEARNING

Report on the OPEN DAY – Project Exhibition

Date: 24th May 2025
Venue: Department of Machine Learning, BMSCE

Introduction

The Open Day – Project Exhibition organized by the Department of Machine Learning, B.M.S. College of Engineering on 24th May 2025 was a celebration of innovation, applied learning, and interdisciplinary collaboration. The exhibition aimed to provide a platform for final-year undergraduate students to demonstrate their project work, which integrates theoretical concepts, programming skills, and domain knowledge acquired over their academic journey.

Open Day is not merely a display of technical artifacts—it is a culmination of months of ideation, experimentation, and refinement. Students were encouraged to identify real-world problems, apply Machine Learning principles, and engineer viable, impactful solutions. The event also serves as an important academic milestone, reinforcing project-based learning and experiential education, which are central to the pedagogical framework of the department.

Furthermore, the exhibition fosters an ecosystem where students gain industry exposure through interaction with professionals, receive constructive feedback, and build confidence in presenting technical ideas to a broader audience. It also allows faculty members and external observers to evaluate emerging trends in student interests, innovation potential, and readiness for industry or higher research.

By connecting academic learning to practical implementation, the Open Day exemplified the department's commitment to producing graduates who are not only technically competent but also solution-oriented and research-driven.

Participation & Highlights

- 44 student teams showcased a wide range of projects across various domains such as Artificial Intelligence, Natural Language Processing, Computer Vision, IoT, and more.
- Each project demonstrated the students' problem-solving abilities, technical skills, and creative thinking developed over the academic year.
- A panel of distinguished industry professionals was invited to evaluate the exhibits.
- Judges engaged in meaningful dialogue with students, providing both critical feedback and career guidance.
- The evaluation criteria included innovation, technical depth, implementation, presentation clarity, and real-world applicability.

Judges:

1. Ms. Muskan Chaudhary, Co-Founder and CTO, GuideUs

2. Ms. Rajeswari R., Senior Software Engineer, JP Morgan
3. Ms. Shivani P. R, Software Engineering Professional, BT Group

Best Projects selected:

- Augmented Reality and Machine Learning powered Offline Retail Shopping Experience Accelerator
- Split Panel Engine for Automated Rendering (SPEAR)
- Steganography for AI Security
- Multi-model AI for autonomous vehicles

OUTCOMES

- The event encouraged interdisciplinary collaboration and sparked interest in solving societal and industrial problems through machine learning.
- Visitors included students from other departments, alumni, and industry guests who appreciated the talent and technical maturity of the department.

Photos:

Conclusion

The Open Day – Project Exhibition was a resounding success, demonstrating the department's commitment to fostering innovation and preparing students for real-world challenges. The Department of Machine Learning looks forward to scaling the event in the coming years with broader industry and academic collaboration.

Supporting documents:

Title of the Project, Students' USN, Faculty Guide/Supervisor

Sl.No	Title of the Project	USN	USN	USN	USN	Guide
1.	Chat bot	1BM21AI059	1BM21AI130			Prof. VR
2.	Policy Making Framework: Optimal Tax Policy using Deep Reinforcement Learning	1BM21AI027	1BM21AI026	1BM21AI028	1BM21AI036	Dr. SK
3.	Job Genie	1BM21AI139	1BM21AI142	1BM21AI134		Dr. GS
4.	Fitness Tracker	1BM21AI062	1BM21AI031	1BM21AI002		Dr. AKN
5.	AI Assistant for Linux	1BM21AI099	1BM21AI004	1BM21AI119	1BM21AI117	Dr. SVN
6.	ADALAT	1BM21AI089	1BM21AI091	1BM21AI100	1BM21AI070	Dr. AKN
7.	pet skin disease prediction	1BM21AI045	1BM21AI077	1BM21AI078		Prof. KKR
8.	Virtual clothing try-on	1BM21AI035	1B21AI040	1BM21AI043		Dr. SBS
9.	Online E commerce platform	1BM21AI001	1BM21AI017	1BM22AI403	1BM21AI022	Prof. KKR
10	Emotion detection in coma patients using Machine learning.	1BM21AI092	1BM21AI110	1BM21AI120		Dr. AKN
11	Content generation for social media marketing	1BM21AI073	1BM21AI081	1BM21AI095		Prof.APK
12	Augmented Reality and Machine Learning powered Offline Retail Shopping Experience Accelerator	1BM21AI066	1BM21AI005	1BM21AI033	1BM21AI060	
13	Intelligent parking management system	1BM21AI133	1BM21AI132	1BM21AI136		Prof. APK
14	ReadEasy: Automating PDF Interaction	1BM21AI015	1BM22AI401	1BM22AI404		Prof. VR
15	Leveraging AI in Education for rural students of India	1BM21AI094	1BM21AI116	1BM21AI085		Dr. SBS
16	Advanced News Research Tool using Langchain	1BM21AI050	1BM21AI020	1BM21AI009		Dr. SK
17	An Interative Learning Platform with Advanced Math Problem Solving	1BM21AI013	1BM21AI018	1BM21AI021		Dr. SK
18	AI-Powered Interior Design	1BM22AI408	1BM22AI410			Prof. APK
19	Percepta AI: Multimodal AI for Blind Person Assistance	1BM21AI037	1BM21AI061	1BM21AI112	1BM21AI118	Dr. MP

20	Split Panel Engine for Automated Rendering (SPEAR)	1BM21AI123	1BM21AI105	1BM22AI405		Prof.VR
21	Agricultural water management	1BM21AI007	1BM21AI032	1BM21AI034		Prof. KKR
22	BioMimic AI - Intelligent disease diagnosis and personalized rehabilitation system	1BM21AI127	1BM21AI135	1BM21AI075		Dr.VH
23	CrispKeeper: Real-Time Food Freshness Monitoring and Recipe Recommendation Using Roboflow and GPT	1BM21AI088	1BM21AI041	1BM21AI029		Dr. JS
24	Lumina AI	1BM21AI072	1BM21AI090	1BM21AI102		Prof.CV
25	Flappy Bird Game	1BM21AI076	1BM21AI082	1BM21AI006		Dr.MP
26	AI based Question paper Generation	1BM21AI086	1BM21AI101	1BM21AI114		Dr. MP
27	AI-Powered Real-Time Gym Posture Monitoring and Personalized Fitness System	1BM21AI104	1BM21AI108	1BM21AI121		Dr. JS
28	Heart Attack Risk Prediction using Retinal eye image	1BM22AI400	1BM22AI402	1BM22AI407		Prof.CV
29	Building a chatbot in dialogflow	1BM21AI107	1BM21AI126	1BM21AI138		Prof.VR
30	AI based helmet violation detection system	1BM21AI111	1BM21AI115	1BM21AI069		Dr. JS
31	Trade Sage-A personal Stock Market Assistant	1BM21AI055	1BM21AI023	1BM21AI058	1BM21AI067	Prof.CV
32	AI-Powered System for Bone Fracture Detection and Diagnostic Assistance	1BM21AI071	1BM21AI106	1BM21AI109		Prof.LBK
33	Generative AI for Corporate Financial Law	1BM21AI008	1BM21AI038	1BM21AI039		Dr. GS
34	Multi-model AI for autonomous vehicles	1BM21AI053	1BM21AI024	1BM21AI042		Dr. SVN
35	Advanced Sign Language Recognition in Real Time	1BM21AI030	1BM21AI143	1BM21AI068		Prof.LBK
36	Deepfake detection using deep learning	1BM21AI064	1BM22AI406	1BM22AI411		Prof.SP
37	Quiz Generation Using LangChain	1BM21AI080	1BM21AI074	1BM21AI051		Prof.SP

38	Arable landscapes mapped with GPT-Enhanced geographic analysis	1BM21AI131	1BM21AI128	1BM21AI103		Prof.LBK
39	AI-DRIVEN STOCK ANALYSIS AND TRADING SIMULATION PLATFORM	1BM21AI137	1BM21AI122			Prof.SL
40	Ask Your Docs	1BM21AI096	1BM21AI052	1BM21AI083		Prof.SL
41	Car accident detection, wildlife recognition and Accident avoidance	1BM21AI003	1BM21AI049			Dr.VH
42	Real-time Weapon detection in CCTV Footage	1BM21AI025	1BM21AI046			Prof. SBM
43	Steganography for AI Security	1BM21AI140	1BM21AI141	1BM22AI409		Dr. SBS
44	ECHO, a personalised music generation system	1BM21AI093	1BM21AI125	1BM21AI019		Prof. VH