

DEEPIKA AMBADE

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OBJECTIVE

Versatile B.Tech Artificial Intelligence and Data Science student with expertise in AI, machine learning, and data analytics, complemented by business acumen and problem-solving skills. Hackathon winner with hands-on experience in innovative projects and a strong grasp of business analysis. Passionate about blending technology and strategy to create impactful AI-driven solutions. Enthusiast for astrophysics, books, and travel, bringing creativity and a global perspective to every endeavor. Looking for roles as an AI Engineer or Data Scientist to contribute to transformative advancements.

EDUCATION

B.Tech(AI and DS), Vijaybhoomi University
CGPA : 8.5

Expected 2026

Higher Secondary School, Sri Chaitanya
MPC

2020
96 %

SKILLS

Technical Skills: Machine Learning, Natural Language Processing (NLP), Data Analysis Visualization, Robotics IoT, Hackathons, SQL, Excel, Python, R, Prompt Engineering, Data Scraping, Technical Content Writing

Soft Skills: Creativity, Communication, Time Management, Leadership, Multilingual

Additional Skills: Business Acumen, Research, Technical Writing, IoT Hardware Knowledge

HACKATHON EXPERIENCE

- **Hackaton Winner** IIT Patna
- **Top Performances in Major Hackathons:** Secured prestigious positions in high-profile hackathons such as **Vidyut 3.0** at BIMTECH Noida, **Datazoids 2.0** at IIM Kashipur, and **Productathon AI** at IIT Roorkee, consistently ranking among the top competitors.
- **Recognized for Problem-Solving and Innovation:** Gained recognition for exceptional problem-solving and innovative solutions in competitions like **Abhudaya** at IIT Bombay, **Mind the Product** at IIT Roorkee, and **Advolution 9.0** at IMI Delhi, showcasing creativity and technical expertise.
- **Notable Participations and Contributions:** Contributed to the field through participation in **Lost Lime-light** at SIBM Nashik, **Prodalytics** at IMT Ghaziabad, and **Coherence 5.0** at IIM Kashipur, along with publishing articles in **Samvad** and **Optimus 23.2** at IIM Shillong, emphasizing the ability to articulate insights and share knowledge.

PROJECTS

Agri Projects:

- **Cult Tom: AI-driven Cultivation Management.** AI-based system that optimizes crop growth and resource usage, helping farmers enhance productivity through data-driven insights.
- **Farmfusion: AI for Farm Data Integration.** AI-based system that integrates farm data to optimize crop forecasting, irrigation, and resource allocation, improving farm efficiency.
- **Weather Forecasting Model.** Developed a machine learning model to predict weather patterns using historical data, providing accurate forecasts to support agricultural planning.

- **Renewable Energy Optimization.** Developed algorithms to optimize energy production from renewable sources, contributing to sustainable energy solutions.

Health and Diagnosis:

- **Hepatitis Detection and Diagnosis.** Applied machine learning to predict hepatitis disease, improving early diagnosis and treatment.
- **Brain Cancer Prediction and Diagnosis.** Developed a deep learning model to detect brain cancer from medical images, aiding in early detection and diagnosis.

Business and Analytics:

- **Customer Churn Prediction.** Built a predictive model to identify customers likely to churn, enabling businesses to implement effective retention strategies.
- **House Price Prediction.** Created a regression model to predict house prices based on features like location, amenities, and market trends.
- **Mobile App Data Analysis.** Analyzed user behavior data to optimize app features, enhancing user experience and engagement.
- **Crime Analysis and Prevention.** Used data analytics to predict crime hotspots, offering insights for effective preventive measures and law enforcement strategies.
- **Accident Prediction and Prevention.** Built a predictive model to forecast traffic accidents, contributing to public safety and accident prevention measures.
- **Route Optimization for Logistics.** Developed a model to find the most efficient routes for delivery logistics, reducing time and operational costs.

Data Science and Machine Learning:

- **Mushroom Classification.** Applied machine learning techniques to classify mushroom species based on physical characteristics, ensuring safe identification.
- **Quality Analysis of Wines.** Built a model to assess wine quality based on chemical composition and sensory characteristics, providing insights for producers.
- **Sentiment Analysis of Social Media Data.** Created a model to analyze sentiment in social media posts, identifying trends and user perceptions.
- **Astronomic Classification.** Created an algorithm to classify astronomical objects using machine learning techniques and image processing.

AI and NLP:

- **GenAI Chatbots.** Developed AI-driven chatbots using TinyLlama and RAG models for text extraction from books in multiple languages, enhancing user interaction and content accessibility.

LEADERSHIP

- As the Student **Head of the Training and Placement Committee**, spearheaded student placements, coordinated with alumni, and forged partnerships with industry HRs, CEOs, and top companies to bring in live projects, internships, and career opportunities.
- Hosted and led the **1st HR Conclave at Vijaybhoomi University**, curating sessions and networking opportunities that facilitated meaningful interactions between students and industry professionals, bridging the gap between academia and industry.
- Key member of the **E-Cell**, driving entrepreneurial events and managing the organization of **Elevate 2024 Hackathon**, overseeing logistics, execution, and fostering student participation while connecting them with industry leaders for real-world challenges.