

Manik Pandey

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SUMMARY

Motivated and analytical Computer Science undergraduate with a strong focus on artificial intelligence, deep learning, and applied machine learning. Experienced in full-stack development, research, and robotics, with a proven track record of impactful project delivery and leadership. Seeking opportunities to contribute technical and creative solutions in cutting-edge AI/ML environments.

TECHNICAL SKILLS

Programming Languages: Python, C++, Java, JavaScript
ML/AI Frameworks: TensorFlow, PyTorch, Keras, scikit-learn, YOLO, GloVe
Web Technologies: HTML, CSS, Node.js, Express.js, React, EJS, MongoDB, Passport.js
Robotics & Infrastructure: PX4, ROS, Gazebo, Ubuntu, Jetson Nano, Raspberry Pi, MAVLink
Libraries & Tools: NumPy, Pandas, OpenCV, Git, Docker, REST APIs, Cloudinary, Render, Material UI, Joi

PROJECTS

- Nestify – Home Rental Web App**
Full-stack Rental Platform
Engineered an Airbnb-style platform, integrating user authentication (Passport.js) and dynamic image uploads (Cloudinary) to streamline property listings and enhance user experience.
Architected and deployed a scalable MVC structure with RESTful APIs, ensuring high maintainability and reliable cloud operations. [GitHub]

2024
Node.js, Express.js, MongoDB, EJS, Cloudinary
- Multi-Domain Sentiment Analysis with ML/DL**
NLP, Machine Learning
Developed and benchmarked NLP models (LSTM, LR, NB) for sentiment classification across **four diverse datasets** (IMDB, Amazon, Yelp, Twitter), optimizing text representation with GloVe embeddings.
Achieved robust results by systematically evaluating models based on ROC-AUC and classification accuracy, ensuring high reliability for multi-domain applications. [GitHub]

2024
Python, TensorFlow, scikit-learn, GloVe
- Disaster Management Drone System (RAZOR & AIRBOTS)**
AI, Robotics, Computer Vision
Engineered a dual-drone system for autonomous disaster response (AI, Robotics, CV). Developed RAZOR (RPI + YOLOv8) for real-time aerial surveillance and AIRBOTS (Jetson Nano + PX4/ROS/MAVLink) for precise payload delivery.
Implemented advanced automation features, **reducing manual intervention in drone workflows by 40%**. [GitHub]

2024–Ongoing
Python, ROS, YOLOv8, Jetson Nano, Raspberry Pi

EXPERIENCE

- Lead, Pahadi Club, VIT Bhopal**
Technical & Cultural Initiatives
Spearheaded an **18+ member team**, orchestrating **over 5 large-scale festivals** and achieving a **200% increase in campus engagement**. Coordinated cross-functional teams and managed logistics for seamless execution.

2023–2024
Bhopal, India
- Event Management Team, AWS Cloud Club**
Cloud Computing Outreach
Managed and successfully executed **over 7 hands-on workshops** on cloud computing, **boosting attendance by 60%** and significantly improving participant feedback ratings.

2022–2023
VIT Bhopal
- Troop Leader, Scouts**
Leadership & Community Service
Led teams of 20–32 scouts through demanding camps, cultivating teamwork and resilience. Awarded Governor's Certificate for leadership and survival skills.

2018–2020
State/District Camps
- Recognized Contributor, 7th Udyam Mahila Ideation Challenge**
Innovation & Teamwork
Earned Certificate of Recognition for innovation and teamwork in a national ideation challenge featuring **over 120 participants**.

2025
National Competition

EDUCATION

- VIT Bhopal University**
B.Tech in Computer Science & Engineering (AI & ML)
Key Coursework: Data Structures & Algorithms, Object-Oriented Programming (OOP), Operating Systems, Computer Vision, Robotics, Artificial Intelligence (AI), Database Management Systems, Natural Language Processing (NLP), Machine Learning (ML)

2023–2027 (Expected)
CGPA: 9.15/10.0

CERTIFICATIONS

- Oracle Generative AI Professional

July 2025
- Cloud Computing, NPTEL SWAYAM (IIT Kharagpur)

June 2025
- Governor's Certificate in Scouts and Guides (Rajya Puraskar)

2019