Meet Vachhani

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in LinkedIn | ○ Github

EDUCATION

VIT Bhopal University — Bhopal, India
Integrated M.Tech in Artificial Intelligence; CGPA: 8.17/10.0 — *2022 – 2027*
Courses: *Coursework: Data Structures & Algorithms, Machine Learning, Deep Learning, Computer Vision, NLP, Operating Systems, DBMS*

TECHNICAL SKILLS

Programming: Python, Java, C++
Machine Learning & AI: PyTorch, TensorFlow, Scikit-learn, Transformers, OpenCV
Deep Learning Domains: Computer Vision, NLP, Sentiment Analysis, Image Classification
Backend & APIs: FastAPI, Django REST Framework, SQL, PostgreSQL
Tools & Technologies: Git, Docker, AWS, Jenkins, REST APIs
Soft Skills: Leadership, Team Coordination, Problem Solving, Mentorship
Certifications: ML with Python (University of Michigan), Cloud Computing (IIT KGP – NPTEL), DevOps (Udemy)

EXPERIENCE

House of PY Technologies — Surat, Gujarat
Python Developer Intern — *Nov 2025 – Present*
- Built and optimized RESTful APIs for ERP modules, improving backend response time and stability across core workflows.
- Improved code reliability by debugging critical API issues and maintaining technical documentation for development teams.
- Designed and implemented SQL database schemas for user management, authentication, and transaction workflows.

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Elevate Labs — Remote
Data Analyst Intern – Exploratory Analysis & Predictive Modeling — *May 2024 – July 2024*
- Developed an Airbnb Price Prediction model achieving 85% accuracy, using feature engineering and regression-based ML pipelines.
- Created a real-time Twitter Sentiment Analysis system capable of processing 10,000+ tweets, generating actionable insights for trend monitoring.
- Conducted exploratory data analysis (EDA) to identify key signals affecting pricing, user sentiment, and platform engagement.

PROJECTS

PTSD Detection Tool (Micro-expression Recognition) — *Python, TensorFlow, OpenCV, CNN*

- Built a micro-expression recognition pipeline to identify PTSD-related facial cues from high-frame-rate video.
- Implemented muscle-movement tracking, expression segmentation, and frame-level CNN classification.
- Designed the system for potential real-time mental health screening, improving micro-expression detection robustness.

Hybrid CNN-ViTNet for Satellite Image Classification — *CNN, ViT, TensorFlow*

- Designed a hybrid CNN–ViT architecture combining local feature extraction with global attention.
- Achieved 98.10% accuracy on satellite imagery through multi-scale feature fusion and spatial context modeling.
- Improved classification consistency across varying resolutions and terrain categories.

SST-5 BERT+++ Sentiment Classifier — *BERT, RoBerta, Transformers, Cross-Attention, Python*

- Developed a multi-view sentiment classifier using BERT + RoBERTa with a custom cross-attention mechanism.
- Reached 55.39% accuracy on SST-5, placing the model in the global top 10 for fine-grained sentiment classification.

Achievements & Awards

- **Smart India Hackathon (SIH) 2024 – Internal Round Qualified** – Shortlisted for developing a digital contract-based farming solution.

- **2nd Place — Chess Tournament, Advitya 2023 (VIT Bhopal)** Secured runner-up position in the annual intra-university championship.

Volunteering & Leadership

- **Operational Manager – AI Club, VIT Bhopal**
  Acted as the operational bridge between core leadership and execution teams across Tech, Events, Web, and Media. Managed logistics and coordination for workshops, ML sessions, and recruitment drives attended by 400+ participants. Oversaw cross-team communication, task allocation, and end-to-end execution of club activities.

- **Core Team Member – Event Strategy & Execution, E-Cell**
  Led the "Paper Trading" event with 150+ participants, handling planning, flow design, and on-ground operations. Supported entrepreneurship-focused events by coordinating teams and ensuring smooth execution and participant engagement.