# Meet Vachhani

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## EDUCATION

**VIT Bhopal University**                                                        Bhopal, India
*Integrated M.Tech in Artificial Intelligence; CGPA: 8.16/10.0*                  *2022 – 2027*
**Courses:** *Data Structures and Algorithms, Machine Learning (ML), Computer Vision (CV), Operating Systems, Database Management Systems (DBMS), Deep Learning (DL), Natural Language Processing (NLP)*

## TECHNICAL SKILLS

**Languages**: Python, Java, C++
**Frameworks & Libraries**: TensorFlow, PyTorch, Scikit-learn, OpenCV, Transformers, Flask
**Tools & Technologies**: Git, Docker, AWS, REST APIs, Jupyter, Jenkins, SQL
**Platforms & IDEs**: Google Colab, GitHub, VS Code, Anaconda
**Soft Skills**: Team Collaboration, Problem Solving, Leadership, Mentorship, Event Management
**Certifications**: ML with Python (Michigan University - Coursera), Cloud Computing (IITKGP - NPTEL), DevOps (Udemy)

## EXPERIENCE

**Elevate Labs**                                                                 Remote
*Data Analyst Intern – Exploratory Analysis & Predictive Modeling*               *May 2024 – July 2024*
- Built Airbnb Price Prediction model achieving 85% accuracy; implemented real-time Twitter Sentiment Analysis system handling 10,000+ tweets with actionable EDA.

**AI Club, VIT Bhopal**                                                          Bhopal, India
*Operations Manager*                                                             *April 2025 – Present*
- Coordinated between board and team leads; co-hosted a 200+ participant hands-on workshop on ML & Arduino for Beginners.

## PROJECTS

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

- Engineered a CNN pipeline to detect PTSD indicators from subtle micro-expressions in high-frame-rate video.
- Integrated muscle movement detection, expression segmentation, and real-time analysis aimed at mental health diagnostics.

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

- Designed a hybrid model combining CNN with Vision Transformers, reached 98.10% accuracy on satellite imagery
- Applied multi-scale fusion and spatial context extraction for improved object classification.

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

- Developed a cross-attention-based multi-view sentiment architecture using HuggingFace Transformers on SST-5 dataset.
- With 55.39% accuracy, ranking in global top 10 for fine-grained sentiment classification.

## ACHIEVEMENTS & AWARDS

- Selected for SIH '24 (Internal Round) – Team shortlisted for contract-based farming solution.
- Secured 2nd Place in Chess Tournament – Advitya 2023, VIT's Annual Tech Fest.

## VOLUNTEERING

- Core Team Member – Event Strategy & Execution, E-Cell Club – Led "Paper Trading" with 150+ participants and supported startup-focused events.
- Event Lead, AI Club – Organized ML sessions and task-based recruitment events for 400+ attendees.