Arush Badhe

B.Tech in Information Technology — IITM, VIT Pune — Pune, Maharashtra

✉ arushbadhe@gmail.com   GitHub
in LinkedIn   🌐 Portfolio

About

Aspiring AI/ML engineer passionate about transforming complex data into meaningful, actionable insights. I specialize in building intelligent, scalable systems using modern machine learning, deep learning, and data-centric approaches. With a strong foundation in both theory and practical implementation, I am particularly drawn to applications in Natural Language Processing and Computer Vision — fields where I actively pursue personal and academic projects. I am eager to grow through impactful internships that challenge me to innovate, collaborate, and contribute to solving real-world problems through AI.

Skills

- Python, C++, Java
- HTML, CSS, JavaScript
- React.js, Node.js
- Git, GitHub
- YOLO, PyTorch, Google Colab

- MongoDB, MySQL, Firebase
- Linux, Bash
- LaTeX, Markdown
- OpenCV, Scikit-Learn
- MediaPipe, Keras, Hugging Face

Academics, Interests & Articles

Relevant Coursework

- Data Structures and Algorithms
- Machine Learning Techniques
- Database Management Systems
- Computer Networks
- Data Science
- Web Technologies

Professional Interests

- NLP Chatbots
- Computer Vision and Sports Analytics
- Full Stack Applications and Web Development
- Gen AI, AI agents

Articles & Publications

- Decoding the Brain: A Comparative Study of EEG-Based Brain-Computer Interfaces
- Cryogenic Computing and concepts of quantum computers
- Impact of Gen-AI in our lives

Achievements

- Leetcode Programming Achievement- 100 problems
- Social Welfare Achievement
- Student of M-Prakash Institute
- IITM BS Data Science Foundation completion

Education

BS Data Science and Applications   2024 — ongoing
Indian Institute Of Technology, Madras
CGPA: 7.86 / 10

B.Tech in Information Technology   2023 — 2027
Vishwakarma Institute of Technology, Pune
CGPA: 8.51 / 10 (Till 4th Semester)

Class XII – CBSE   2020 — 2022
Millenium National School, Pune

Projects

Cross-View Player Matching System   2025
An advanced computer vision system that matches players across different camera views in sports videos using multi-modal features including TransReID embeddings, CLIP features, LAB color analysis, and jersey number detection. Features automatic team color mapping and generates side-by-side annotated videos for match visualization.

Mental Health AI Chatbot   2025
A modular, transformer-powered chatbot built with Streamlit that provides emotional support through sentiment analysis, emotion detection, crisis detection, and therapeutic interventions.

Yoga Pose Detection using Mediapipe & Keras   2025
Built a real-time yoga pose classifier using Mediapipe and TensorFlow. Provided live webcam-based feedback and confidence scores.

Image Metadata and Face Recognition Toolkit   2025
A Colab-based toolkit that combines DeepFace, Google Cloud Vision, and geolocation APIs to perform facial recognition, image metadata extraction, and GPS mapping from uploaded photos.

Certifications

- Introduction to Programming – Kaggle
- Introduction to Machine Learning – Kaggle
- Basic SQL – Hacker Rank
- Complete Pandas - Udemy
- Data Analysis with Excel - Udemy
- Advanced Excel - Udemy

Leadership & Extracurriculars

- School Olympics - Champion Boy (Won most amount of medals among any athlete in school olympics across the district)
- Team lead - Google Solutions Challenge 2025
- Interested in Sports (Badminton, Swimming, Tennis, Chess)

Languages

- English – Fluent
- Hindi – Fluent
- Marathi – Native