Bhogaraju L M Shashank Vaibhav

GitHub | ✉ shashankb2810@gmail.com | 📞 +91-7386816774

EDUCATION

Degree	Institute	CPI/Percentage	Year
B.Tech in Electrical Engineering	Indian Institute of Technology Bombay	**7.79** / 10.00	2026
Intermediate (Class XII)	Narayana Junior college	**98.6**%	2022
Matriculation (Class X)	Narayana School	**10.00** / 10.00	2020

SCHOLASTIC ACHIEVEMENTS

- Secured **All India Rank 362** out of **1.6 Lakh** candidates in *JEE Advanced* *(2022)*
- Obtained **99.98th percentile** and an **All India Rank 205** amongst **10 Lakh+** candidates in *JEE Main* *(2022)*
- Secured a **KVPY** rank of **1541** in **SX** stream, eligible for scholarship at **All India Level** *(2021)*
- Secured **All India Rank 147** in *JEE Main (B.Arch)* examination *(2022)*
- Scored **100 percentile** in the subject of **Mathematics** in *JEE Main* *(2022)*
- Secured an **AP EAMCET** rank of **49** in a state-wide examination with over **1.5 lakh** students *(2022)*

PROFESSIONAL EXPERIENCE

Junior Cloud Engineer | *TecFinics* *(May'25 - Jul'25)*
Internship

- **Authored** AWS Landing Zone report covering multi-account security and governance optimizing cost strategies
- **Benchmarked** competitor sites identifying SEO and trust gaps proposing **3-5** actionable structural improvements
- **Integrated** responsive landing sections and certification panels enhancing user engagement and domain trust

KEY PROJECTS

ML Feature Extraction and Neuromodulation | *Bachelor Thesis Project* *(Aug'25 - Dec'25)*
Guide: Prof. Laxmeesha Somappa

- **Engineered** patient-specific `ieeg-swz` dataset by processing raw EEG signals to isolate seizure events
- **Implemented** hardware-constrained adaptive thresholding with back-propagation optimizing for low-power devices
- **Resolved** model saturation issues by scaling neural units and fine-tuning hyperparameters for each patient

Credit Card Fraud Detection | *Self Project* *(Oct'25 - Nov'25)*
Tech Stack: Python, Kafka, Docker

- **Architected** real-time fraud detection system using **LightGBM** and **DistilBERT** ensemble achieving **87.7%** accuracy
- **Deployed** end-to-end streaming pipeline via **Kafka** and **FastAPI** processing **284k** transactions with **p95** latency tracking
- **Automated** deployment workflows using **Docker** and **GitHub Actions** ensuring robust **CI/CD** and system reliability

Virtual Try-On Closet | *Seasons of Code* *(July'24)*
Web and Coding Club, IIT Bombay

- **Developed** end-to-end VITON-HD pipeline integrating OpenPose and DeepLab for precise virtual garment warping
- **Engineered** geometric matching module via Thin Plate Spline transformations ensuring accurate clothing alignment
- **Applied** alignment-aware normalization via ResNet backbone to synthesize photorealistic try-on outputs

Applied Machine Learning | *Course Project* *(Sep'24 - Nov'24)*
Data Analysis and Modeling

- **Conducted** statistical hypothesis testing on LA Housing data validating correlations between affordability and health scores
- **Benchmarked** models including Random Forests and **ResNet18** utilizing **GridSearchCV** for hyperparameter tuning
- **Performed** unsupervised clustering using **DBSCAN** and **PCA** to extract latent feature patterns from multi-source datasets

TECHNICAL SKILLS

Programming	Python, C++, C, JavaScript, SQL, Verilog, VHDL, Assembly
Data Science / AI	PyTorch, TensorFlow, Scikit-Learn, Pandas, NumPy, Matplotlib, OpenCV, LightGBM
Tools / Platforms	Git, Docker, Kafka, AWS, LaTeX, Linux, Fusion360

EXTRACURRICULAR ACTIVITIES

- **Spearheaded** the college cricket team to victory in the Inter-college League acting as Captain *(2022)*
- **Orchestrated** logistics for Techfest and E-Summit managing footfall of **100,000+** attendees *(2023)*