

EDUCATION

•M.Tech in Computer Science and Engineering	Sept 2024 - Sept 2026
CGPA: 8.29/10	Mar Athanasius College of Engineering, Kerala
•B.Tech in Computer Science and Engineering	Aug 2018 - Aug 2022
CGPA: 7.43/10	APJ Abdul Kalam Technological University, Kerala

EXPERIENCE

•NIT-Trichy	June 2025 - August 2025
Research Intern	Tiruchirappalli, Tamil Nadu
–Conducting research on EEG signal classification for depression detection under the guidance of Dr. V. Sridevi, using real-world EEG datasets.	
–Designing and training deep learning models, experimenting with CNN and LSTM architectures to enhance classification accuracy and model robustness.	
•AT&T Communications India Pvt. Ltd.	Nov 2022 - Nov 2023
Apprentice Network Engineer	Bengaluru, Karnataka
–Manage enterprise routers and switches over SSH, leveraging Unix commands for configuration and verification of network devices.	
–Develop shell scripts for automating device logging and write Python scripts to streamline configuration management across network infrastructure.	
–Collaborated on Layer 3/Layer 2 segmentation using BGP, OSPF, VLAN.	

PROJECTS

•Adaptive Handover Optimization in Open RAN	GitHub
TensorFlow, TFLite, Python	M.Tech Mini Project
–Developed an ML-based adaptive handover model using LSTM on the Berlin V2X dataset for predictive handovers in 5G networks, achieving 86.67% accuracy.	
–Compressed the model using structured pruning and quantization, reducing size by 87% for real-time edge deployment in Open RAN environments.	
•Bayesian Deep Learning with EM-TDAMP	GitHub
TensorFlow Probability, TFLite, Python	M.Tech Micro Project
–Engineered an uncertainty-aware MLP classifier, compressing it via quantization for embedded use. Recorded 92.77% accuracy on a 60,000-sample MNIST dataset, targeting safety-critical edge deployments (e.g., telecom anomaly detection).	
–Reduced model size by 50% (from 20MB to 10MB), enabling deployment on resource-constrained devices.	
•Student Performance Prediction	GitHub
Scikit-learn, SMOTE, Python	M.Tech Micro Project
–Built an end-to-end ML pipeline with ETL preprocessing on a 10,000-student dataset; developed a dropout predictor using K-Means and SVM with 98.69% accuracy and integrated explainability features to highlight key dropout factors for improved stakeholder understanding.	
•CCTV Deployment Optimization	GitHub
Python, PyQt5, ILP	M.Tech Micro Project
–Created a PyQt5 GUI tool for ILP-based camera placement, ensuring 100% area coverage with 28.6% cost savings in synthetic urban layouts.	

TECHNICAL SKILLS

- Programming Languages: Python, Java, C, SQL
- Deep Learning: CNN, RNN, LSTM, Quantization
- Frameworks & Tools: TensorFlow, TFLite, scikit-learn, Keras, Pandas, NumPy
- Version Control: Git, GitHub

CERTIFICATIONS

•AI Builders Lab Internship, AccelerateX at M.A. College of Engineering	2024
•Google Cybersecurity Professional Certificate, Coursera	2024
•Introduction to Internet of Things, NPTEL Online Certification (Funded by MHRD, Govt. of India) — Score: 58	2022
•Python Full Stack Development, Pentagon Space Batch No.: PSO6DEC21PFS818	2022
•Architecting with Google Compute Engine Specialization, Google Cloud (Coursera)	2021