Adithya Rao Kalathur

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Education

Manipal School of Information Sciences (MSIS) — Manipal, India
Master of Engineering in Computer Science and Engineering; CGPA: 7.96/10 — *2025 – 2027 (Expected)*

Manipal Institute of Technology (MIT) — Manipal, India
Bachelor of Technology in Computer and Communication Engineering; CGPA: 7.06/10 — *2020 – 2024*

Technical Skills

Languages: Python, C, SQL, Java
Machine Learning: Deep Learning, Computer Vision, Transfer Learning, Ensemble Methods, Model Explainability
Tools & Frameworks: PyTorch, TensorFlow, Scikit-Learn, Pandas, React.js, Node.js, Power BI, PostgreSQL, Git, Linux/Ubuntu
Specialized: Mobile App Development, Penetration Testing, Web Scraping (Beautiful Soup, Scrapy, Selenium), ARM Cortex-M

Professional Experience

Full Stack Web Development Intern — Jun 2023 – Jul 2023
Thaniya Technologies [Certificate] — *Mangalore, India*

- Built a movie review and recommendation system using **React.js** frontend and **PostgreSQL** backend, hosted on Render [GitHub]

Academic Projects

Deep Learning-Based Grading of Squamous Cell Carcinoma | *PyTorch, TensorFlow, Grad-CAM* [GitHub] 2024

- Achieved **99.72% accuracy** using **InceptionV3** for SCC vs Adenocarcinoma and **96.5% accuracy** with **EfficientNetB0** for multi-class grading on **LC25000 dataset**; evaluated **DenseNet121**, **MobileNetV2**, and **ConvNeXt-Tiny**
- Deployed **Gradio** interface with **Grad-CAM** visualization and **Phi-3 Mini LLM** for model interpretation summaries in 4-member team

Night Vision Enhancement using ML | *U-Net, ResNet, Python* [GitHub] 2024

- Developed image enhancement system using **U-Net** and **ResNet34-based U-Net** to improve low-light image quality

FMCG Supply Chain Analytics Dashboard | *Power BI, DAX, SQL* [GitHub] 2023

- Designed **Power BI dashboard** analyzing KPIs (**OTIF**, **LIFR**, **VOFR**) for Atliq Mart across 3 cities and 50+ categories; developed 20+ **DAX measures** identifying **15% service gap** in 3-member team

Network Intrusion Detection System | *Random Forest, Gradient Boosting* [GitHub] 2023

- Built intrusion detection system achieving **94%+ accuracy** with **<5% false positive rate**; performed feature engineering on network traffic data

Publications & Research

SQL Injection Detection: Comparative Study of SVM, RF and Hybrid Models [GitHub] Oct 2025

- Presented at **1st International Conference on Computational Intelligence and Data Communication (ICCIDC 2025)**, Bali, Indonesia [Certificate]
- Developed hybrid **SVM-RF ensemble** achieving **97.84% accuracy**, **98.09% precision**, **97.57% recall** on 30,920 queries; evaluated **BiLSTM** achieving **98.75%** in 2-member collaboration

Certifications

IBM Data Science Professional Certificate | Google Data Analytics Professional Certificate | Google Cybersecurity Professional Certificate | GitHub Foundations | and more [View All]

Additional Information

Languages: English (Fluent), Hindi (Fluent), Kannada (Native), Tulu (Native)