

Adithya Rao Kalathur

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EDUCATION

Manipal School of Information Sciences (MSIS)

Master of Engineering in Computer Science and Engineering; CGPA: 7.96/10

Manipal, India

2025 – 2027 (Expected)

Manipal Institute of Technology (MIT)

Bachelor of Technology in Computer and Communication Engineering; CGPA: 7.06/10

Manipal, India

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] 2025

- 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]

2025

- 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]

2025

- 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]

2025

- 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)