

# Adithya Rao Kalathur

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## EDUCATION

<b>Manipal School of Information Sciences (MSIS)</b> <i>Master of Engineering in Computer Science and Engineering; CGPA: 7.96/10</i>	Manipal, India 2025 – 2027 (Expected)
<b>Manipal Institute of Technology (MIT)</b> <i>Bachelor of Technology in Computer and Communication Engineering; CGPA: 7.06/10</i>	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

<b>Full Stack Web Development Intern</b> <i>Thaniya Technologies [Certificate]</i>	Jun 2023 – Jul 2023 Mangalore, India
<ul style="list-style-type: none"><li>Built a movie review and recommendation system using <b>React.js</b> frontend and <b>PostgreSQL</b> backend, hosted on Render [<a href="#">GitHub</a>]</li></ul>	

## ACADEMIC PROJECTS

<b>Deep Learning-Based Grading of Squamous Cell Carcinoma</b>   <i>PyTorch, TensorFlow, Grad-CAM</i> [ <a href="#">GitHub</a> ]	2025
<ul style="list-style-type: none"><li>Achieved <b>99.72% accuracy</b> using <b>InceptionV3</b> for SCC vs Adenocarcinoma and <b>96.5% accuracy</b> with <b>EfficientNetB0</b> for multi-class grading on <b>LC25000 dataset</b>; evaluated <b>DenseNet121</b>, <b>MobileNetV2</b>, and <b>ConvNeXt-Tiny</b></li><li>Deployed <b>Gradio</b> interface with <b>Grad-CAM</b> visualization and <b>Phi-3 Mini LLM</b> for model interpretation summaries in 4-member team</li></ul>	
<b>Night Vision Enhancement using ML</b>   <i>U-Net, ResNet, Python</i> [ <a href="#">GitHub</a> ]	2025
<ul style="list-style-type: none"><li>Developed image enhancement system using <b>U-Net</b> and <b>ResNet34-based U-Net</b> to improve low-light image quality</li></ul>	
<b>FMCG Supply Chain Analytics Dashboard</b>   <i>Power BI, DAX, SQL</i> [ <a href="#">GitHub</a> ]	2025
<ul style="list-style-type: none"><li>Designed <b>Power BI</b> dashboard analyzing KPIs (<b>OTIF</b>, <b>LIFR</b>, <b>VOFR</b>) for Atliq Mart across 3 cities and 50+ categories; developed 20+ <b>DAX measures</b> identifying <b>15% service gap</b> in 3-member team</li></ul>	
<b>Network Intrusion Detection System</b>   <i>Random Forest, Gradient Boosting</i> [ <a href="#">GitHub</a> ]	2025
<ul style="list-style-type: none"><li>Built intrusion detection system achieving <b>94%+ accuracy</b> with <b>&lt;5% false positive rate</b>; performed feature engineering on network traffic data</li></ul>	

## PUBLICATIONS & RESEARCH

<b>SQL Injection Detection: Comparative Study of SVM, RF and Hybrid Models</b> [ <a href="#">GitHub</a> ]	Oct 2025
<ul style="list-style-type: none"><li>Presented at <b>1st International Conference on Computational Intelligence and Data Communication (ICCIDC 2025)</b>, Bali, Indonesia [<a href="#">Certificate</a>]</li><li>Developed hybrid <b>SVM-RF ensemble</b> achieving <b>97.84% accuracy</b>, <b>98.09% precision</b>, <b>97.57% recall</b> on 30,920 queries; evaluated <b>BiLSTM</b> achieving <b>98.75%</b> in 2-member collaboration</li></ul>	

## 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)