

Gokul nath

Contact :

Email : gokulkrishna.m.8055@gmail.com

Mobile Number : +91 9740161045

LinkedIn : linkedin.com/in/gn-raavanan

Social :

Website: www.agilamlabs.com

YouTube : youtube.com/@agilamlabs

Git hub : github.com/agilamlabs

EDUCATION :

Master of Business Administration

Majors: Finance and Business Intelligence

SRM Institute of Science and Technology

August 2021 - July 2023

SKILL'S :

- Corporate Finance
- Financial Analysis
- Derivative Analysis
- Statistical Modelling
- Risk Management
- Business Analysis

Bachelor of Engineering

Electronics and Communication

Maharaja Institute of Technology Mysore

August 2017 - July 2021

- Artificial Intelligence
- Machine Learning
- Solution Architect
- Data Analysis
- Robotics

PROFESSIONAL EXPERIENCE

Associate Business Scientist

January 2025 - June 2026

Decimal Point Analytics

- Directed end-to-end delivery as Project Manager for a client side project with team consisting of 2 developers, 1 data scientist, and 1 business analyst, managing scope, delivery plans, task ownership, stakeholder updates, and execution governance using agile frameworks.
- Owned end-to-end delivery of an internal automation initiative, leading a 3-member team across discovery, architecture, development coordination, testing, and deployment, delivering 8 FTE equivalent capacity savings through process automation.
- Created BRDs, PRDs, FSDs, KPIs, North Star metrics, success criteria, and acceptance criteria by translating ambiguous business problems into structured product and analytics requirements.
- Designed and deployed multi-agent AI system architecture in production server environments, enabling automated workflows, intelligent orchestration, and scalable execution.
- Acted as Solution Architect and Project Manager for client facing projects, designing system solution architecture, workflow logic, integration structure, and implementation roadmap.

Machine Learning Engineer

June 2023 - November 2024

Softflix

- Built machine learning models to identify complex learning topics within specific video timelines by analyzing repeated user views, rewind behavior, watch duration, and engagement patterns.
- Created video level and topic level analytics to help the business identify premium content opportunities, supporting pricing tier decisions for advanced educational modules.
- Designed user behavior models to identify subjects with high engagement, repeated learning activity, and retention potential, helping content and marketing teams prioritize future educational content.
- Owned end-to-end development of machine learning solutions that connected product usage behavior with business outcomes, helping teams improve content strategy, retention, pricing decisions, and revenue planning.

PROJECTS

Artificial Intelligence and Agentic AI System Design

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|---|------|
| 1. Multi Agentic Equity Researcher AI System | 2026 |
| 2. Web Tool (headless browser and browser isolation with MCP) for AI Agents | 2026 |
| 3. Graph RAG pipeline for AI Agent memory layer | 2026 |
| 4. Earnings Call Transcription and Summarization | 2025 |
| 5. Minutes of Meeting generator | 2025 |

Quantitative Analysis and Financial Modeling

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| 1. Likelihood of Price Reversal using Bayesian Probability Conversion | 2024 |
| 2. Portfolio Optimization using Efficient Frontier | 2024 |
| 3. Monte Carlo Simulation of Equities in Portfolio | 2024 |
| 4. Option Price and Greeks calculation using Black Scholes merton model | 2024 |
| 5. Implementation of VaR and CVaR using Historical and Parametric Method | 2024 |
| 6. Historical Volatility and Risk Return measures of Stocks | 2024 |
| 7. Implied Volatility Calculation and IV curve graph of Derivatives | 2024 |

Machine Learning and Image Processing

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| 1. Document Data Extractor using OCR | 2025 |
| 2. Movie Recommendation system | 2024 |
| 3. Face Emotion Reaction detection | 2023 |
| 4. Image Cipher generator | 2023 |
| 5. Video Subtitle generator | 2023 |
| 6. Detecting Anemia through Eye Images using CNN's | 2023 |
| 7. Breast Cancer detection through Images like ultrasound scans and MRI | 2023 |

Robotics

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|--|------|
| 1. Robotic Arm with 6 Degree of Freedom 3 linear and 3 angular movements | 2021 |
| 2. Remote control mecanum wheel robot with Omnidirectional movement | 2021 |
| 3. 3D Printer | 2021 |
| 4. Hexacopter for Flood and Crop Surveys | 2021 |

Embedded and IoT (Internet of Things)

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|---|------|
| 1. Real time Monitoring of Greenhouse parameters to improve Yield | 2020 |
| 2. Home Automation by integrating IoT system | 2020 |
| 3. Automobile Traffic and Parking Management system | 2019 |
| 4. Soil Moisture monitoring system to optimize Nutrients | 2019 |

CERTIFICATIONS

Finance and Business Intelligence

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| 1. Google Business Intelligence | 2024 |
| a. Foundations of Business Intelligence | |
| b. Data Models and Pipelines | |
| c. Decisions, Dashboards and Reports | |
| 2. Introduction to Statistics from Stanford University | 2024 |
| 3. Risk Management and Trading Psychology from Zerodha Varsity | 2023 |
| 4. Currency, Commodity, and Govt Securities from Zerodha Varsity | 2023 |

5. Option Strategies from Zerodha Varsity	2022
6. Futures Trading from Zerodha Varsity	2022
7. Options Trading from Zerodha Varsity	2022
8. Technical Analysis from Zerodha Varsity	2022
9. Fundamental analysis from Zerodha Varsity	2022
10. Stock Market Basics from Zerodha Varsity	2022
11. Capital Markets, Derivatives & Trading Strategies from NSE	2022
12. Reading Financial Statements from Corporate Finance Institute	2021
13. Beginner's Trading from Internshala	2020

Machine Learning

1. Mathematics for Machine Learning and Data Science from DeepLearning.AI	2024
a. Probability & Statistics for Machine Learning & Data Science	
b. Calculus for Machine Learning and Data Science	
c. Linear Algebra for Machine Learning and Data Science	
2. Intro to Machine Learning from Kaggle	2024
3. Machine Learning and Image Processing from Cisco	2020
4. Robotic vision using Python intermediate from Inker Robotic Solutions	2020
5. Smart Assistant Development from Cisco	2020
6. Chatbot from Inker Robotic Solutions	2020
7. Machine Learning from Internshala	2020

Python

1. Python and Statistics for Financial Analysis from The Hong Kong University	2024
2. Data Cleaning from Kaggle	2024
3. Pandas from Kaggle	2024
4. Advanced Python for Robotics Operating System from Inker Robotic Solutions	2020
5. Python for Everybody from University of Michigan	2020
a. Retrieving, Processing, and Visualizing Data with Python	
b. Using Databases with Python	
c. Using Python to Access Web Data	
d. Python Data Structures	
e. Programming for Everybody	

Electronics

1. VLSI Verification from Maven Silicon	2021
2. VLSI Design Methodologies from Maven Silicon	2020
3. PCB Architecture and Design from Cisco	2020
4. Wireless Technologies for Internet of Things from Cisco	2020
5. Control of Mobile Robots from Georgia Institute of Technology	2019
6. Computer Hardware & Networking from Keonics	2017

Programming

1. Software Testing and Dot Net from SVS	2022
2. C, C++ and Java from SVS	2022
3. Core Java from Internshala	2019
4. Diploma in Computer Application from CSCE	2015

TOOLS AND TECHNOLOGY

Harness engineering, Agentic memory layer design, MCP, A2A, SDLC, Agile Project management, VS Code, Cursor, antigraVity, claude code, codex, openrouter, Figma, Anaconda, Langchain, Langgraph, Google Cloud Platform, AWS, Pandas, Streamlit, Numpy, plotly, Scikit-learn, TensorFlow, Pydantic, Yfinance, Ollama, Git, Linux, Docker, Jupyter notebook, google colab, Tableau, Hugging face.

RESPONSIBILITIES AND ACHIEVEMENTS

1. Team Leader of the group for Agam 5.0 at SRM university led my team to victory.
 2. Technical Head of IEEE RAS MITM Student Chapter 2021.
 3. Successfully organized Robotics workshop under IEEE RAS MITM 2020.
 4. Joint Secretary of IEEE RAS MITM Student Chapter 2019 - 2020.
 5. Team Leader of the group for e-Yantra Robotics competition 2018 and 2019.
 6. Team Leader of the group for Symbiot competition 2019 and 2020.
 7. Team Leader of the group for Smart India Hackathon 2018.
 8. Successfully organized two Webinars under IEEE RAS MITM student branch.
 9. Successfully organized and coordinated inauguration events of IEEE RAS, CAS, and SPS MITM student branch chapters.
 10. Team Leader of the group for Webathon competition MITM 2018.
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DECLARATION

I hereby declare that the information provided above is true to the best of my knowledge.

Gokul nath