

Subramanian S M. Sc Decision and Computing Sciences (Integrated)

✉ subramanian160104@gmail.com

📞 +91 8072744511

📍 Coimbatore, India

🔗 <https://github.com/S-Subramanian-44>

🔗 Portfolio

PROFESSIONAL EXPERIENCE

Software Developer, Ciyes Systems Pvt Ltd

2024/07 – 2025/10 | Hybrid

- Developed a GRU-based predictive maintenance model using IoT sensor data to forecast equipment failures in Indian Railways, improving early fault detection accuracy and asset reliability.
- Integrated ML pipelines with Apache Airflow for automated scheduling and CPU monitoring, and utilized Evidently AI for continuous model performance tracking and data drift detection.
- Enabled proactive maintenance strategies that reduced Mean Time to Repair (MTTR) and improved system uptime, ensuring safer and more efficient rail operations.

EDUCATION

M.Sc Decision and Computing Sciences, Coimbatore Institute of Technology

2021 – present | Coimbatore, India

CGPA - 8.60

HSC, Lisieux Matriculation Hr. Sec. School

2020 – 2021 | Coimbatore, India

Percentage - 88%

PROJECTS

Crypto Vault: Loss Advisory & Investment Guidance on Cryptocurrency

- Developed an AI-driven cryptocurrency advisory platform using LSTM, ARIMA, and FinBERT NLP models, achieving low MAPE and RMSE scores for accurate price and sentiment forecasting, enabling data-backed investment recommendations.
- Built a scalable Next.js–FastAPI–Node.js architecture integrating portfolio analytics, real-time market tickers, emotional investing detection, and live crypto news to provide comprehensive and dynamic market insights.
- Integrated an LLM-powered GitHub assistant offering personalized investment strategies and behavioral alerts, enhancing user confidence, reducing impulsive trading, and promoting informed decision-making for novice retail investors.

Smart Gift Assistant

- Developed a Smart Gift Assistant using Flask and MongoDB to generate personalized gift recommendations based on user interests, occasions, and budget, enhancing personalization and user convenience in gifting decisions.
- Implemented optimization algorithms such as Dynamic Programming, Greedy, and Backtracking to maximize gift value and handle real-time product unavailability or budget constraints.
- Integrated Selenium-based web scraping from Amazon and designed a responsive UI to fetch live product data, ensure up-to-date recommendations, and enhance user engagement.

Automated Candidate Selection

- Developed a Flask-based Python application leveraging Linear Regression and Random Forest models for candidate selection, evaluated using low MAE and high F1-score, ensuring accurate and data-driven hiring decisions.
- Automated resume screening and Big Five personality assessments, reducing recruitment time and manual bias while improving the consistency and efficiency of candidate evaluation.
- Integrated email automation using smtplib and MIMEText to notify shortlisted candidates, enhancing communication, candidate engagement, and overall employer branding for organizations.

TECHNICAL SKILLS

- Python
- SQL
- Power BI
- Web development

SOFT SKILLS

- Team Player
- Time management
- Analytical Thinking
- Adaptability

AREAS OF INTERESTS

- Machine learning
- Artificial Intelligence
- Full Stack development
- Software development

HACKATHON

SensAI Hackathon - Hyperverge, Coimbatore Institute of Technology

2025 | Coimbatore

Competed in a 30-hour hackathon and developed a personalized learning AI assessment prototype featuring a chatbot capable of real-time text-to-speech responses, enabling interactive and accessible learning experiences.

redBus Data Decode Hackathon, Analytics Vidhya

2025 | Remote

Built a Python based demand forecasting model using AutoGluon to predict bus journey demand for 15 days in advance from real world booking dataset and ranked in the top 31 out of 690 participants in the 2025 leaderboard

WORKSHOP

Conversational Data Analytics - Latentview, National Institute of Technology

2023 | Tiruchirappalli

Lean Six Sigma Yellow Belt - Grant Thornton,

National Institute of Technology

2023 | Tiruchirappalli