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 – 2025/06 | Coimbatore, India

- Developed a GRU-based time series model to predict equipment failures in Indian Railways, enhancing early fault detection accuracy.
- Integrated IoT sensor data with machine learning pipelines to enable real-time monitoring and predictive analytics for critical rail assets.
- Reduced Mean Time to Repair (MTTR) by enabling proactive maintenance strategies, significantly improving system reliability and asset uptime.

EDUCATION

M.Sc Decision and Computing Sciences, Coimbatore Institue of Technology 2021 – present | Coimbatore, India
CGPA - 8.55

HSC, Lisieux Matriculation Hr. Sec. School 2020 – 2021 | Coimbatore, India
Percentage - 88%

PROJECTS

Smart Gift Assistant

- Built an Smart Gift Assistant using Flask, MongoDB to generate personalized gift recommendations based on user interests, occasions, and budget constraints.
- Implemented optimization algorithms like Dynamic Programming, Greedy, and Backtracking to maximize gift value and handle real-time unavailability or budget limits.
- Designed a responsive UI and integrated web scraping from platforms like Amazon to fetch live gift options and enhance user experience.

Fitness Training Studio

- Leveraged MEAN stack to build a comprehensive fitness companion that empowers users to take charge of their fitness goals.
- The application empowers both users and administrators. Users can view plans, manage profiles, and track progress. Administrators can manage user data and update fitness plans to ensure effectiveness and adapt to user needs.
- The MEAN stack delivers a responsive and user-friendly interface, making it easy to navigate and use and provides a foundation for a scalable system that can handle a growing user base

Automated Candidate Selection

- Developed a Flask-based Python application employing Linear Regression and Random Forest models for candidate selection, achieving an accuracy of 83%.
- Streamlined the hiring process by automating resume analysis and big 5 personality assessments, enhancing efficiency and accuracy in talent acquisition.
- Enhanced candidate experience through personalized email notifications to successful applicants, improving communication and overall recruitment effectiveness.

TECHNICAL SKILLS

- Python
- SQL
- Power BI
- Web development

SOFT SKILLS

- Time management
- Adaptability
- Team Player
- Coordinating

AREAS OF INTERESTS

- Artificial Intelligence
- Content Creation
- Software development
- Business Analytics

HACKATHON

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

SensAI Hackathon - Hyperverge, Coimbatore Institute of Technology 2025 | Coimbatore, India
Competed as part of team in a 30-hour continuous hackathon and delivered a working prototype focusing on personalized learning AI assessment with real-time text to audio generation.

WORKSHOP

Lean Six Sigma Yellow Belt - Grant Thornton, 2023 | Tiruchirappalli, India
National Institute of Technology

Conversational Data Analytics - Latentview, National Institute of Technology 2023 | Tiruchirappalli, India