R SURIYANARAYANAN

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📍 Thanjavur, Tamil Nadu | ⌂ GitHub | 🏆 LeetCode

Overview

Passionate IT professional with a strong foundation in programming and a keen interest in Artificial Intelligence and Machine Learning. Experienced in developing AI-driven applications, implementing machine learning models, and building full-stack web solutions. Proficient in Python, with hands-on expertise in API integration, natural language processing, and predictive analytics. Committed to leveraging AI/ML technologies to solve real-world problems and drive innovation through continuous learning and collaborative teamwork.

Education

K RAMAKRISHNAN COLLEGE OF ENGINEERING, Tiruchirappalli.	Sep 2021 – May 2025
B.Tech Computer Science and Business Systems - 7.5 CGPA	
MAXWELL MATRIC HR SEC SCHOOL, Thanjavur.	Jun 2020 – May 2021
HSC: 86%	
MAXWELL MATRIC HR SEC SCHOOL, Thanjavur.	Jun 2018 – Mar 2019
SSLC: 84.8%	

Professional Experience

Analyst Intern *Current*
Acuity Knowledge Partners
- Contributing to data analysis and research initiatives to support business intelligence solutions.
- Collaborating with cross-functional teams to deliver actionable insights and comprehensive reports.
- Applying analytical skills to process and interpret complex datasets for strategic decision-making.
- Leveraging technical expertise in Python and data analytics to enhance workflow efficiency.

Skills

- **Hard Skills:** C++ (Competitive Programming), **Python** (Streamlit, FastAPI), Machine Learning, Natural Language Processing, **Database**: MySQL, MongoDB, SQLite, AWS (S3, EC2, Lambda), **Tools**: Git, GitHub, Docker, Jupyter Notebook, Google Colab.
- **Soft Skills:** Teamwork, Communication, Problem-Solving, Adaptability, Decision Making.

Projects

Simple Chat-Bot 🔗 *[API Integration, FastAPI, AI]*
- Built an intelligent conversational agent using Gemini API with integrated Weather and Stock APIs for real-time data.
- Deployed the application using FastAPI with comprehensive Swagger UI documentation and error handling.
- Implemented response optimization and natural language query understanding for enhanced user interaction.

Personal Blogging Platform 🔗 *[Flask, MongoDB, Streamlit]*
- Developed a full-stack blogging platform with RESTful API using Flask and MongoDB Atlas for backend operations.
- Created a responsive Streamlit frontend with real-time updates, search functionality, and statistics dashboard.
- Implemented comprehensive CRUD operations with data validation, error handling, and full-text search capabilities.

Sentiment Analysis System *[Python, Machine Learning, NLP]*
- Developed a sentiment analysis model using NLP techniques to classify text into positive, negative, and neutral sentiments.
- Trained and evaluated multiple machine learning algorithms with optimized feature extraction for high classification accuracy.
- Created a user-friendly interface for real-time sentiment prediction and analysis of customer feedback and social media data.

Certifications

- **AWS Cloud Practitioner** - AWS.
- **Getting Started with Python** - Coursera.
- **Front-End Development - HTML** - Great Learning.
- **Introduction to MongoDB** - Skillup.

Achievements

- First runner-up in the Intelligent Innovators Hackathon (I2H) 2.0.
- Selected for the 'PEC HACKS' Hackathon at Panimalar Engineering College.
- Patent Published (Application under review) - NEOMAT.
- Completed 100+ problems on LeetCode.