Sugirthan J

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About

Second-year Computer Technology student with hands-on experience in Machine Learning and AI technologies. Learning proficient skills in Python programming, prompt engineering techniques, and data analysis. Enthusiastic about applying technical knowledge to solve real-world problems using AI-driven approaches.

Academic Projects

Disease Classification Using Machine Learning
- **Algorithms & Tools:** Logistic Regression, Decision Tree, Random Forest (Python, Scikit-learn, Pandas, NumPy)
- **Outcome:** Developed a predictive model achieving 87% accuracy in disease identification based on user-input symptoms, enabling early detection for common health conditions

Student Course Management System
- **Algorithms & Tools:** CRUD Operations, Grouping, Joins, Triggers; Flask, MySQL, HTML/CSS, JavaScript (Basic)
- **Outcome:** Created a web application with simple secure user authentication (hashing) allowing students to manage course enrollments, Understand and Hands on experience with the DBMS through SQL queries

AI-Powered Resume Analyzer & Quiz Evaluator
- **Algorithms & Tools:** Optical Character Recognition (OCR), Automated Question Generation; Flask, Python, Gemini AI Models (API)
- **Outcome:** Built an intelligent system that analyzes resume content using AI and generates personalized assessment questions, reducing manual screening time by 60% and improving candidate evaluation and selection through automated scoring

Skills

Programming: Python, HTML/CSS, Flask

AI & Data Science: Machine Learning, Prompt Engineering Techniques (RAG),

Web Development: Flask, MySQL, Database Design

Soft Skills: Analytical Problem Solving, Critical Thinking, Team Collaboration and Communication

Certifications

- Artificial Intelligence Fundamentals - IBM-SkillsBuild
- Prompt Engineering for ChatGPT - Coursera
- Python for Data Science, AI & Development - Coursera
- Python for Data Science - NPTEL

Education

PSG College of Arts and Science, B.Sc in Computer Technology - Coimbatore, Tamil Nadu	Expected June 2026
VMJ School - Madurai, Tamil Nadu	Completed

Achievements

- Champion of the "Trivia Titans Quiz" competition organized by the Department of Computer Science
- Completed AI and Data Skills Internship at YBI Foundation