

# Sugirthan J

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## About

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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

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### 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

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**Programming:** Python, SQL, 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

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

## Education

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**PSG College of Arts and Science**, B.Sc in Computer Technology - Coimbatore,  
Tamil Nadu

Expected June 2026

**VMJ School** - Madurai, Tamil Nadu

Completed

## Achievements

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- Champion of the "Trivia Titans Quiz" competition organized by the Department of Computer Science
- Participated in Thiagarajar College of engineering a "Techsavr" hackathon, developing an POC for healthcare data analysis within 2 hrs
- Secured third place in the Intercollegiate Basketball Tournament representing PSG College against CIT (Coimbatore Institute of Technology)