SWETHA S

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PROFILE SUMMARY

Proficient in Python, Java, SQL, MongoDB, and data analytics, I bring a solid mix of technical expertise and practical experience. My background in AI, machine learning, and web development allows me to approach problems creatively and efficiently, with a keen ability to turn data into actionable insights. I'm eager to apply my diverse skill set to drive growth and innovation in any environment.

EDUCATION

B. Tech ARTIFICIAL INTELLIGENCE and DATA SCIENCE *Kathir College of Engineering*	**7.65 CGPA**	Pursuing
HSC *Palaniyammal Municipal GHSS*	**85%**	May2022|Tirupur
SSLC *Vijayapuram GHSS*	**85%**	May2020|Tirupur

COURSEWORK

Artificial Intelligence| Machine Learning |Deep Learning |Java | Python | Database (SQL, MongoDB) |Web Development | Data Analytics

TECHNICAL SKILLS

Python| AI & ML| | SQL | HTML&CSS | Tableau | JavaScript |Java

PROJECT EXPERIENCE

BLOOD IQ- *Large Language Model (LLM)*   Feb 2025

- Developed 'Blood IQ' web application using Flask, supporting processing of bloodreports from PDFs, PSF, and images with95%parameterextraction accuracy
- Integrated Mistral-7B and LLaMA models for analyzing 20+blood panels and offering real-time food and health suggestions on the basis of deficiencies
- Implemented multi-language support (Tamil, Hindi, English), enhancing user interaction by 50% and handling patient records in MongoDB.

SAR IMAGE COLORIZATION – *Deep Learning (DL)*   Aug 2024

- Utilized SAR image colorization with Deep Learning methods such as GANs and CNNs to transform grayscale SAR images into improved color visuals.
- Used data augmentation and transfer learning to enhance model performance and deal with data shortage issues.

BUBBLE BEE BOUTIQUE – *React Framework*   Dec 2024

- Created a full- stack boutique web application with React, Node.js, and Flask that facilitates optimal data flow and real-time user engagement.
- Implemented RESTful API and secure authentication that makes frontend backend data communication efficient as well as gives real-time data updates.

CERIFICATIONS

Infosys Springboard	2025

- Gen OpenAI Pretrained Transformer

Smart Yugam Academy	2025

- Java Skilling Program

HP Foundation	2025

- Data Science & Analytics

Great Learning	2024

- Excel Regression Analysis

MongoDB	2024

- Introduction to MongoDB