SURENDHAR K

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in linkedin   github   </> leetcode

SKILLS

- **Core:** Programming, Data Pipelining (ETL), Data Modeling, Machine Learning , Generative AI
- **Programming:** Python, Flask, Java, HTML & CSS, Bash Scripting
- **Tools & Technologies:** Git, Linux, Docker, REST APIs
- **Data Technologies:** SQL, MongoDB, Spark (PySpark), Databricks, Airflow, Azure data tools,Power BI

EDUCATION

Bachelor of Engineering in Computer Science and Engineering   2021 – 2025
SRM Valliammai Engineering College, Chennai   **CGPA: 8.6**

Relevant Coursework: Data Structures & Algorithms, Database Management Systems, Object-Oriented Programming, Operating System, Data Mining and Warehousing, Software Engineering, Cloud Computing

Class 12 (AISSCE), PCM-Computer Science   2020 – 2021
N.S.N Memorial Senior Secondary School, Chennai   **94.2%**

EXPERIENCE

Junior Engineer   Jan 2025 – currently
MulticoreWare Inc, Chennai

- Worked on kernel-level and device driver development for embedded Linux, contributing to a camera sensor project. Gained experience in C programming, bash scripting, Docker, and collaborative tools (Jira).

Intern   Jun 2024 – july 2024
Infinite Computer Solutions, Chennai

- Built a query-response platform integrating Gemini API to retrieve answers from databases and documents. Gained hands-on experience in backend development, flexible search handling, and API integration.

PROJECTS

Mood Assessment and Evaluation of Virtual Meetings

- Emotional Analysis using DL – Python – OpenCV – Pandas – TensorFlow/Keras – Dlib – FER2013 dataset
- Uses facial emotion recognition and gaze detection to assess participants' emotional state and attentiveness and Provides live feedback

FitForm: Posture Analysis and Correction

- Machine Learning project : Python – OpenCV – Pandas/Numpy – MediaPipe – TensorFlow/Keras
- Utilizes computer vision and ML models to assess posture correctness by analyzing real-time webcam video.

AskIt:AI-Powered Document Query and ChatBot

- Generative AI – Python – Flask – API – RAG – vector embeddings – FAISS – database – text extraction
- Built a Flask-based GenAI application with context-aware chat, RAG-based document QA, vector embeddings for semantic search, and text extraction capability.

COURSES & CERTIFICATION

- **Data Analysis with Python** – Coursera, issued Feb 2023
- **Complete Python Bootcamp** – Coursera, issued Aug 2022