

THARUN GOWDA K

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EDUCATION

Sri Venkateshwara College of Engineering, Bengaluru

2022 – 2026

B.E - Computer Science and Engineering - **CGPA: 8.1**

Bengaluru, Karnataka

Amara Jyothi PU College, Kolar

2020 – 2022

2nd PUC - Science (PCM) - **91%**

Kolar, Karnataka

Magnolia High School, Kolar

2019 – 2020

SSLC - **94%**

Kolar, Karnataka

PROJECTS

Smart Farming Assistant – Crop Recommender [↗](#) | Python, Flask, scikit-learn, Next.js

Mar'25

- Implemented a **secure crop recommender system** using **decision trees** trained on **live farm data**.
- Built and deployed a **Flask API** with input validation and weather integration for real-time predictions.
- Designed a responsive **Next.js frontend** for farmers to receive dynamic and personalized suggestions.

Integrated Annual Report Portal [↗](#) | Python, Flask, MongoDB, HTML, CSS

Dec'24

- Developed a scalable web-based portal using **Python-Flask** and **MongoDB** to centralize and streamline annual report generation for academic departments, enhancing consistency and operational efficiency.
- Enforced **role-based access** control and automated data aggregation features to ensure secure, structured data management and reduce manual overhead.
- Integrated **real-time analytics** and **customizable visualization tools**, enabling stakeholders to monitor departmental performance and generate insightful, data-driven reports.

Employee Information Management Chatbot [↗](#) | Python, pandas, Openpyxl, Excel

Mar'24

- Developed a **Python-based** terminal chatbot for managing employee data, enabling users to add, update, delete, and view employee records through natural language interaction.
- Leveraged the **pandas** library for **Excel-based** data storage and retrieval, ensuring persistent and structured recordkeeping without the need for a database.
- Applied **dynamic greeting** responses using a customizable text file, enhancing user engagement with personalized conversational flow.
- Added input validation and error handling for robust user interaction, preventing data inconsistencies and ensuring smooth execution during employee record operations.

TECHNICAL SKILLS & COURSEWORK

Languages: Python, Java , C, SQL, JavaScript

Web Technologies: HTML, CSS, React.js, Next.js, Node.js, Express.js, REST APIs

Databases: MongoDB

Developer Tools: Git, GitHub

Coursework & Concepts: Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Computer Networks (TCP/IP, OSI), DBMS, Machine Learning

CERTIFICATIONS

- Artificial Intelligence Foundation Certification** – Infosys [↗](#)
- Python Development Internship** – OCTANET SERVICES PVT LTD. [↗](#)
- GenAI Powered Data Analytics Job Simulation** – TATA [↗](#)
- Python for Data Science** – IBM [↗](#)

EXTRACURRICULAR

Solved 70+ problems across LeetCode and GFG. Strong in graphs, trees, DP, and system design patterns.