

G. Karthick

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Summary

Computer Science Engineering student (Graduating May 2026) with a strong foundation in Data Science, Machine Learning, and Software Development. Proficient in Python, Java, C++, and SQL with hands-on experience in web development and cloud-based simulations. Skilled in deploying ML models, deriving actionable insights through data analysis, and building full-stack applications. Familiar with Agile methodology and SDLC.

Education

Symbiosis Institute of Technology, Pune

May 2022 – May 2026

B.Tech in Computer Science Engineering (Pursuing)

Skills

Languages: Python, Java, C++, SQL, HTML, CSS, JavaScript

Frameworks/Tools: Flask, React, Angular, TensorFlow.js, OpenCV, CloudSim, Power BI, Git, Jupyter, NetBeans, MySQL

Core Concepts: Data Structures & Algorithms, SDLC, Agile, Multithreading

Projects

Flexi-DSBI Web Dashboard (Admin/User)

Flask, SQLite, Power BI

Built a startup success prediction tool with login, Power BI dashboard, and modular routing logic inspired by Power Platform.

AI Interview Evaluator

JavaScript, OpenCV, Web Speech API

Browser-based evaluator with structured scoring (STAR/CEFR), speech-to-text, face metrics, and PDF report generation.

AWS Lambda Simulation in CloudSim

Java, CloudSim

Simulated warm/cold start behavior, function reuse, VM constraints, and resource allocation using custom scheduling.

Hospital Management System

Java, JDBC, MySQL

CRUD-based role-access hospital management app.

GitHub: Hospital Management

Loan Default Prediction System

Python, scikit-learn

Achieved 87% accuracy and AUC 0.92 using Random Forest on 255K+ records with proper preprocessing and tuning.

Reactive 3D Sound Visualizer with Face Tracking

TensorFlow.js, A-Frame

Built a real-time audio-visual web app synced to facial expressions.

GitHub: Audio Visualizer

Internship

Data Analysis Intern – Renu Sharma Healthcare and Education Foundation (Remote) *Apr 2025 – Jul 2025*

- Automated discovery of CSR data using Python scripts, Google Search APIs, and advanced query logic.
- Built tools to extract and organize CSR filings, annual reports, and PDFs from public domains.

- Conducted trend analysis on company initiatives to assist content planning and stakeholder communication.

Technical Volunteer – Rotary Club of Talegaon MIDC, Pune

Jul 2024 – Oct 2024

- Built a website to manage events and registrations; boosted participation by 35%.
- Pitched and localized the platform for Rotary Club-wide adoption.
- Contributed to social media strategy and technical coordination for events.

Certifications

- Product Management Job Simulation – Electronic Arts (Forage)
- Free OpenCV Bootcamp – OpenCV University
- Programming for Everybody – Coursera
- Intro to Machine Learning – Kaggle
- Introduction to Python – DataCamp

Languages Known

Tamil (Speaking) · English (Professional) · Telugu, Hindi (Speaking)