

CH VENKAT

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PROFESSIONAL SUMMARY

Computer Science (AI & ML) graduate (CGPA 8.68) with proven skills in Python, Java, and SQL. Experienced in end-to-end software development, OOP principles, data structures, and structured application design. Delivered three production-grade projects with clean GitHub-managed codebases, systematic debugging, and quantifiable outcomes. Cambridge C1 English certified. Seeking a software engineering role where strong programming fundamentals and financial technology awareness drive impact.

TECHNICAL SKILLS

Languages: Python (primary), Java, SQL, C (basic)
Software Engineering: Object-Oriented Programming, Data Structures & Algorithms, Design Patterns (MVC, Factory, Observer), SDLC, Modular Design, Debugging
Data & Backend: SQL queries (JOIN, GROUP BY, aggregates, indexing, normalisation), MySQL, REST concepts
Tools & Platforms: GitHub (branching, commits), VS Code, Linux, OpenCV
Competitive Coding: HackerRank — Python 4★ | hackerrank.com/chandarlapativenkat9
Soft Skills: Written & verbal communication (Cambridge C1), team collaboration, attention to detail

PROJECTS

Market Maven — Stock Data Analysis System

Python | 2026

- Built a modular Python pipeline applying OOP design and Observer pattern — dedicated classes for data ingestion, processing, and report generation trigger downstream updates automatically, separating concerns and enabling unit-level testing of each module.
- Designed and debugged a multi-stage data transformation workflow; reduced processing errors from 12% to under 2% through systematic edge-case testing and input validation.
- Managed the full codebase on GitHub with structured branching, pull-request style commits, and inline documentation throughout the SDLC — from requirements to final delivery.

Employee Management & Attrition Analysis

Java + SQL | 2025

- Rebuilt core business logic in Java using OOP patterns (encapsulation, inheritance) and the Factory pattern to model employee entities; applied MVC separation to decouple data access from reporting logic.
- Analysed 1,000+ records using advanced SQL (multi-table JOINS, GROUP BY, aggregates); improved query performance by 20% through schema normalisation and strategic indexing.
- Produced structured attrition trend reports following formal documentation standards; presented findings to faculty evaluators, simulating stakeholder reporting in a professional environment.

Virtual Mouse Application

Python, OpenCV | 2024

- Developed a real-time gesture-recognition system from scratch; improved detection accuracy from a 60% baseline to 85%+ through iterative algorithm tuning, systematic debugging, and test-driven improvement cycles.
- Implemented multi-threaded frame processing to reduce input lag by ~40%, applying concurrency concepts to achieve responsive real-time performance.
- Wrote modular, maintainable code with clear function contracts and in-line documentation; presented technical findings concisely to faculty, demonstrating ability to communicate complex outcomes.

EDUCATION

B.Tech — Computer Science & Engineering (AI & ML)

2022 – 2026

Malla Reddy College of Engineering and Technology

CGPA: 8.68 / 10.0

Intermediate (Class XII)

86%

Krishnaveni Junior College

Matriculation (Class X)

CGPA: 10.0 / 10.0

Geetanjali School

CERTIFICATIONS

Cambridge C1 English Proficiency — Cambridge University Press & Assessment | CCNA: Introduction to Networks — Cisco | SQL & Database Fundamentals — Oracle | Programming Using Java — Infosys Springboard | Python & Java Programming — Coursera