

BHARATH G

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Objective:

Software Development Engineer specializing in AI integration and backend architecture. Driven by the mission to make data more meaningful, I build and deploy intelligent software solutions that leverage LLMs to translate complex, raw information into accessible and actionable user experiences.

Area of Interest:

- Software Engineering & Application Development: Backend Development, API Integration, Object-Oriented Programming, Database Management, AI Integration
- Data Science & Analytical Problem Solving: Machine Learning, Statistical Analysis, Algorithmic Optimization

Education:

- B. Tech in Artificial Intelligence and Data Science** | Dr. Mahalingam College of Engineering and Technology, Pollachi
Sep 2027 | CGPA: 8.3
- BS in Data Science and Applications** | IIT Madras, Chennai
Virtual Program | CGPA: 8.0
- HSC** | Saradha Vidhyalaya Matriculation Higher Secondary School, Tiruppur
April 2023 | 88.5%

Skills:

Technical Skills:

- Programming Languages:** Python (Proficient), C, C++, MySQL, Java, HTML
- Tools & Technologies:** Git, GitHub
- Frameworks & Libraries:** Pandas, NumPy, Django, Flask

Soft Skills:

- Communication:** Effective technical communication and presentation skills
- Quick learner:** Adaptive to new techniques
- Leadership:** Experience in organizing technical events and peer learning

Experience:

AI-Powered Data Insight Engine | Python, Django, Ollama, llama

Jun 2026

- Engineered a backend application to seamlessly bridge natural language user queries with relational SQL databases.
- Integrated the local Ollama's Llama 3.2 model to dynamically analyze fetched database records against user prompts, instantly generating precise, human-readable analytical insights and eliminating the need for manual SQL querying.

Retail Inventory Management System | Python, Tkinter, SQL

Feb 2025

- Architected an SQL-backed inventory application for Hygiene to efficiently track bulk and retail orders.
- Reduced manual stock-taking time by 40% through software automation and optimized data structures.

Intelligent Chatbot Application | Python, REST API, LLMs

Jan 2025

- Developed a responsive conversational chatbot using the Google Gemini API to process complex user queries.
- Managed JSON data structures and optimized API calls to ensure reliable, low-latency system responses.

Certifications:

- HackerRank Certified: Problem Solving (Basic), Python (Basic).
- Completed NPTEL+ session on Forecasting with ML Tools (Time-series analysis).
- Completed intensive workshop on Python for Exploratory Data Analysis.

Achievements:

- Winner, Code Clash (Python Competitive Programming), IEEE.
- Winner, Return of the Coder (Python Competitive Programming), DigiFlash.
- Topper Badge, IIT Madras (Computational Thinking, Python).
- Solved 400 LeetCode problems with 50 optimized for top runtime efficiency.
- Smart India Hackathon: Directed a technical team to secure 2nd place at the institutional level, successfully advancing to the top 45 out of 400 teams.

Co-curricular Activities:

- Class Representative: Spearheaded departmental technical events and coding competitions.
- Workshop Lead: Conducted Python for 60+ students, receiving positive feedback.