

Amogh P

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SUMMARY

Passionate and driven Computer Science student with hands-on experience in building scalable, reliable, and user-centric software systems. Skilled in applying computer science fundamentals to real-world engineering challenges, including distributed systems, low-latency pipelines, and intelligent automation. Eager to collaborate on impactful projects, continuously learn new technologies, and contribute to Microsoft's mission to empower every person and organization on the planet to achieve more.

EDUCATION

PES University <i>B.Tech in Computer Science and Engineering</i>	Nov 2022 – May 2026 <i>GPA: 8.02</i>
Siddaganga PU College <i>Higher Secondary Education</i>	Aug 2020 – May 2022 <i>Percentage: 94%</i>

TECHNICAL SKILLS

Languages: Python, C++, C, Java, SQL, Bash.
Core CS: Data Structures, Algorithms, Object-Oriented Design, System Design, Operating Systems.
Frameworks and Tools: PyTorch, TensorFlow, scikit-learn, Apache Spark, Kafka, Hadoop, Git, Docker, FastAPI.
Databases: MySQL, PostgreSQL, SQLite, MongoDB.
Concepts: Distributed Computing, Information Retrieval, Machine Learning, Recommender Systems, Large-Scale System Design.
Dev and Collaboration: VS Code, Google Colab, GitHub, Jupyter, Notion, Microsoft Office.

PROJECTS

UrbanMind — The AI Brain of the City <i>Kafka, PySpark, GeminiAI, SQL</i> <ul style="list-style-type: none">Built a Kafka pipeline to scrape real-time civic reports for AI-driven alerting and emergency analysis.Used PySpark to filter and enrich streams, enabling disruption prediction and misinformation detection.Stored signals in SQL with credibility-based ranking for GeminiAI to summarize and prioritize alerts.	GitHub
Real-Time Sentiment Streaming System <i>Apache Kafka, PySpark, JavaScript</i> <ul style="list-style-type: none">Engineered a real-time pipeline to process billions of emoji reactions with low latency and high availability.Built a scalable distributed pub-sub system for high-concurrency, enabling actionable feedback from streaming.Compared streaming and batch performance through visualization, improving system responsiveness.	GitHub
Multimodal Emotion Analysis Using Machine Learning <i>Python, scikit-learn</i> <ul style="list-style-type: none">Applied classical supervised learning techniques to classify emotion using synchronized video and text inputs.Leveraged feature engineering and iterative model optimization to improve prediction accuracy.Focused on building testable, reproducible ML pipelines.	GitHub
MCP-TerminalAI: Conversational Automation Agent <i>Python, LangChain, Playwright, mcp-use</i> <ul style="list-style-type: none">Developed a CLI-based agent capable of executing real-time automation workflows via natural language inputs.Integrated DuckDuckGo, Airbnb, and browser automation for dynamic content retrieval.Demonstrated rapid adoption of new tools and frameworks to create usable, tested solutions.	GitHub

STRENGTHS & ACHIEVEMENTS

- Strong foundation in algorithms, data structures, and system design, with proven ability to build robust, maintainable software solutions.
- Represented District and Zonal Cricket Teams for multiple years; captained at both levels and led the team to a championship title.
- Developed an AI storytelling system with dynamic voice modulation at a National-Level Hackathon (2024), achieving real-time narrative generation.
- Solved 250+ problems on LeetCode (100 Days Badge, 2025) and earned the HackerRank Problem-Solving (Intermediate) Certificate.