Amogh Prakash

+91 7019627172 | amogh.p27@gmail.com | linkedin.com/in/amogh-prakash-93b585273 | github.com/Amoghprakash2k4

Summary

Aspiring Software Engineer with strong foundation in object-oriented programming (C++, Python) and collaborative project experience. Demonstrated ability to quickly learn new technologies and apply creative engineering to solve complex problems. Experienced in building innovative solutions across machine learning, data processing, and big data. Eager to contribute technical skills in a cooperative team environment while continuing to grow as an engineer.

Education

PES University Bangalore, KA
B.Tech in Computer Science and Engineering *Nov. 2022 – May 2026*

Technical Skills

Languages: C++ , Python, C, SQL
Frameworks: PyTorch, scikit-learn, Hadoop, Kafka, Spark, MySQL
Developer Tools: Git, Google Colab, Docker, VS Code
Certificates: Google Cybersecurity

Projects

Dynamically Voice-Modulated Story Generation System | *Python, FastAPI, React-Vite, Git* GitHub

- Developed an AI-driven storytelling system with modular microservices for emotion-aware voice modulation and character gender identification.
- Applied object-oriented principles to create a scalable system and optimized audio transitions using Librosa/FFmpeg.
- Demonstrated teamwork and time management by structuring project milestones efficiently during the hackathon.

Music Recommendation System | *Python, Collaborative Filtering* GitHub

- Applied engineering principles to develop a music recommendation system using Python and collaborative filtering to provide personalized song suggestions, enhancing user experience by analyzing listening patterns.
- Processed large-scale music datasets to train the model, achieving accurate recommendations and improved engagement, demonstrating the effectiveness of AI-driven recommendations.

Image Classification with Neural Networks | *Python, ANN* GitHub

- Solved complex computer vision problems, iteratively improving model performance by incorporating feedback and best practices from research papers.
- Demonstrated time management by setting project milestones while quickly learning and applying new neural network architectures, achieving high accuracy through systematic engineering approaches.

Multimodal Emotion Analysis Using Machine Learning | *Python* GitHub

- Quickly learned and implemented multiple machine learning frameworks, demonstrating adaptability by incorporating new techniques as the project evolved.
- Sought feedback from professors/peers to refine the emotion classification approach, showing commitment to continuous improvement and best practices.

Real-Time Sentiment Streaming with Kafka and PySpark | *Apache Kafka, PySpark, JS* GitHub

- Collaborated in a team environment to build a real-time sentiment analysis system, applying creative engineering to solve complex throughput challenges while processing billions of emoji reactions.
- Demonstrated adaptability by learning and integrating multiple technologies (Kafka, PySpark, JS) to engineer an innovative high-performance pipeline, reducing throughput from 500 emojis per second to 1 emoji per second