Avinash Bhurke

avinashbhurke8@gmail.com | +91-9075807884 | LinkedIn

Summary

- Innovative Computer Engineering student (CGPA: 8.63) with strong expertise in **AI/ML, full-stack development, and cloud-native applications**. Experienced in building and deploying scalable solutions using **Python, C++, JavaScript, React, Node.js, SQL, Docker, and Git**. Skilled in **machine learning, NLP, deep learning, and large language models (LLMs)**. Proficient with **REST APIs, CI/CD, Agile/Scrum**, and cloud services (**AWS, GCP, Firebase, Supabase**). Published author in **IEEE and Scopus**. Seeking **AI Engineer / Full-Stack Developer** roles to deliver impactful, production-ready solutions.

Education

- **Vishwakarma Institute of Technology, Pune, India** — 2023 – 2027 (Expected)
  B.Tech in Computer Engineering — *CGPA: 8.63*
- **Blue Bells Jr. College, India** — 2022 – 2023
  Class XII — *63.4%*
- **Universal English Medium School, India** — 2020 – 2021
  Class X — *93.2%*

Skills

- **Programming:** Python, C++, C, JavaScript, SQL, PHP
- **Frameworks/Tools:** React.js, Node.js, Express.js, Docker, Git, Postman, VSCode
- **Databases:** MySQL, MongoDB, SQLite3, Firebase, Supabase
- **AI/ML:** Machine Learning, Deep Learning, NLP, LLMs (Large Language Models), CNN, RAG, TensorFlow, PyTorch, Scikit-learn, OpenAI API, Gemini, ChromaDB
- **Cloud/DevOps:** AWS, GCP, Firebase, Supabase, CI/CD pipelines, RESTful APIs

Experience

- **AI Developer Intern, DSC AIML Team** (Nov 2024 – Present): Designed and deployed **hybrid CNN-based neural networks**, boosting accuracy by 12%. Automated preprocessing pipelines in Python, cutting training time by 20%. Authored whitepapers and delivered workshops to 100+ peers, driving a 15% increase in engagement.
- **Outreach Coordinator, EPEC TechFest** (Aug 2023 – Jun 2024): Led digital campaigns across LinkedIn and Instagram, increasing event participation by 20% and recruiting 50+ technical participants. Optimized communication workflows with analytics-driven strategies.

Projects

- **Voice Over Generation Bot** (Feb 2024 – Apr 2024): Developed a scalable **Python + OpenCV + OpenAI + Gemini pipeline** to auto-generate real-time commentary for videos. Processed 100+ video frames, reduced manual commentary time by 70%, and deployed via Docker for portability.
- **Virtual OS Simulation** (Nov 2023 – Jan 2024): Implemented an **OS-level C++ simulation** with paging, multiprogramming, and SI interrupt logic. Enhanced memory handling efficiency by 15%, demonstrating deep understanding of system architecture.
- **Online Bookstore Web App** (Aug 2023 – Oct 2023): Directed a team of 4 to build a **PHP + MySQL** e-commerce platform with advanced search filters and stored procedures. Reduced query time by 40% and supported 50+ transactions.
- **Tree Visualization Tool** (July 2023): Built a **JavaScript-based visualization** platform for BST, AVL, and B-Trees, integrating interactive animations. Used by 200+ students for better comprehension of algorithms.

Publications & Achievements

- Published 2 peer-reviewed research papers in **IEEE and Scopus-indexed journals**: "Smart Automated Table Cleaning" and "Morse Code Communication Device for Visually Impaired".
- Ranked in the **Top 500** out of 5,000+ in GeeksforGeeks institutional leaderboard through consistent problem-solving in Data Structures and Algorithms (DSA).