Ashish Kulkarni

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EDUCATION

University of California, Riverside

Riverside. CA

Master of Science in Computer Science and Engineering

Sep 2025 - Dec 2026

PES University

Bengaluru, KA, India

Bachelor of Technology in Computer Science and Engineering (CGPA: 8.03 / 10)

Dec 2020 - May 2024

• 3x Distinction Award recipient

• Specialization in Machine Intelligence and Data Science

Experience

Nasdag Bengaluru, KA, India

 $Jul\ 2024 - Sep\ 2025$ Software Engineer Jun 2023 – Jun 2024 Software Development Intern

• Jump-started a new ML-based Advisory Technology product as the primary Python developer: built a minimum viable product, presented it to product leadership, and took the project to prototype phase.

• Designed, developed, and maintained microservices for backend processes, and led the end-to-end Python process development-from prototype to production-implementing custom named entity recognition, LLM integration, fuzzy string-matching, and writing Terraform for AWS-powered infrastructure.

• Architected and developed a new web-crawling pipeline using **Selenium WebDriver** and a custom **BFS**-based algorithm, improving mining speed by approximately 5x.

• Regional winner and global finalist of the 2023 intra-company hackathon by leveraging LLMs for custom **Terraform** script generation.

• Mentored at a 6-month ML bootcamp for 30+ employees at Nasdaq Bengaluru.

StanceBeam Bengaluru, KA, India

Computer Vision Intern

Jun 2022 – Aug 2022

- Implemented the usage of stereo vision and epipolar geometry to compute the 3D coordinates of a subject, to be used in a future decision review system for cricket.
- Technologies: OpenCV, NumPy, Python3

Projects

OpenGL Projects | C++, GLUT

This repository contains projects I built while studying the Fundamentals of Augmented and Virtual Reality at PESU, under Dr. Adithya Balasubramanyam. My work ranges from basic 2-d projects, such as generating the Sierpinski triangle fractal using the chaos method, visualizing Graham's scan algorithm, all the way up to implementing elastic sphere collisions in 3-d space.

Glaucoma Diagnosis from Retinal Fundus Images | Python, TensorFlow, scikit-learn

Evaluating popular CNN architectures and histogram equalization-based preprocessing techniques on classifying a retinal fundus image into normal or glaucomatous. Find our results and preprint on my website or GitHub repo.

$\underline{\mathbf{covibot}} \mid Python, PRAW$

A Reddit bot (Top 5 at a hackathon) which gives COVID-19 stats of a specific region without an explicit call, using low-level NLP, and accessing government datasets. I turned my learnings into a 3-part guide on Analytics Vidhya, which you can generally find ranked on the first page of Google search results for how to make a Reddit bot.

Skills

Languages: Python, C++, Java, C, SQL

Concepts: Operating System, Artificial Intelligence, Machine Learning, Neural Networks, Database, Agile Methodology, Cloud Computing, Generative AI, Large Language Models, Computer Vision, Data Science, Computer Networks, Graphs Certifications: Principles of Secure Coding, *Udemy*; AWS Educate Introduction to Cloud 101, *Amazon Web Services*; Quantum Computing Using Qiskit, PESU I/O; LFD103, The Linux Foundation

Personal: I love playing and listening to music, anything outdoors from hiking to biking, and traveling.