Abbas Shaik

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GitHub Link | Portfolio Link | linkedin

Education

SIMATS Engineering College, Chennai, IN *Jul 2022 – Jul 2026*
B.Tech in Computer Science (Specialization: Artificial Intelligence & Machine Learning) GPA: 8.46*/10 (till date)
Relevant Coursework: Operating Systems, Software Engineering, System Design, Database management systems, Data Structures, Machine Learning, AI, Computer Vision, Big Data.

Skills

Languages & Frameworks Python, Java, C/C++, SQL, R-programming TensorFlow, PyTorch.
Operating Systems: Linux/Unix, Shell Scripting(Bash), System Administration.
Cloud Platforms: AWS, Microsoft Azure, Google Cloud Platform (GCP)
DevOps & Tools: Git, CI/CD Pipelines, FastAPI, REST APIs, VS Code, Postman.
Databases: MySQL, Elasticsearch, SQLite, Large-scale Data Processing.

Professional Experience

Chat360, Software Development Intern *Jun 2025 – Present*

- Developed and deployed backend systems on Linux environments, implementing efficient data processing pipelines using Django for 15,000+ daily transaction.
- Build scalable REST APIs on Linux servers, successfully handling 12,000+ concurrent request with 99% uptime and optimized response time under 200ms.
- Implemented automated CI/CD deployment pipelines using Linux shell scripting, reducing deployment time by 65% and eliminating manual deployment errors.
- Optimized system performance through Linux system monitoring and resource tuning, improving CPU utilization by 35% and memory efficiency by 28%.

Academic Projects

Healthcare Diagnostics AI System *Dec 2024 – Present*

- Conducted comprehensive statistical analysis on medical datasets containing 2,500+ patient records and implemented data preprocessing and augmentation techniques, improving model robustness and handling 15+ different medical imaging formats.
- Integrated CNNs for object detection and applied deep learning for image understanding and estimation.
- Achieved 82% accuracy on a custom dataset of 1,000 real-world scenarios.
- Open-sourced implementations: Brain Tumor Detection, Kidney Tumor Detection, Heart Disease Estimation

Distributed Data Processing System *Jun 2025 – Present*

- Architected and built a scalable distributed data processing pipeline handling 50GB+ daily data with 94% processing accuracy and fault tolerance.
- Developed 12 RESTful APIs with JWT authentication, rate limiting (100+ requests/hour), and comprehensive logging, deployed on Linux server.
- Implemented database query optimization and indexing strategies, reducing query execution time by 60% for complex analytical operations.
- Open-sourced complete implementation with documentation on GitHub, enabling reproducible research when it is ready

Leadership and Collaboration

- Led 6-member cross-functional development team for IoT healthcare solution, managing project timeline, deliverables, and successfully delivering 4 major milestones on schedule.
- Mentored 3 junior developers on system optimization, code review practices, and distributed systems architecture during Chat360 internship.
- Organized and facilitated weekly technical workshops for 15+ students on algorithms, system design, and software engineering practices.

Honors & Awards

- Published researcher in AI/ML applications for healthcare diagnostics in 2 international conferences.
- 2024 Achievement award by the College for winning the international conference by presenting the research paper.
- Maintained 8.46*/10.0 CGPA while balancing academic research, internship responsibilities, and leading 4+ major technical projects.
- Delivered production-ready IoT device with 99.9% uptime.