

Sara Fathima

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Bengaluru, India

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PROFILE

Software Engineer with expertise in Python, C++, Java, Unix/Linux, distributed systems, TCP/IP, and machine learning. Experienced in building production-grade AI and backend applications with scalable system design and data pipelines. Proven ability to solve complex problems and deliver high-impact solutions.

TECHNICAL SKILLS

Languages	: Python, C++, Java
Frameworks	: Flask, Django, Spring Boot
Concepts	: DSA, Distributed Systems, Microservices, REST APIs, TCP/IP, Linux/Unix, Cloud (GCP/AWS), CI/CD
Databases	: MySQL, PostgreSQL, MongoDB

EXPERIENCE

AI Chatbot Developer Intern

Bengaluru, India

Mar 2025 – May 2025 *Nexinbe*

- Developed production-grade AI bots using NLP pipelines integrated via REST APIs.
- Improved intent recognition accuracy from 61% to 86% with contextual embeddings.
- Reduced latency by 35% through model compression and optimized async I/O.
- Implemented CI/CD pipelines on GCP with 99.9% uptime.
- Collaborated on distributed system design to optimize high-volume data pipelines.

EDUCATION

Presidency University

Bengaluru, India

2023 – 2026 *BCA in AI & ML* | CGPA: 9.43/10

- Relevant coursework: DSA, Algorithms, OOP, Distributed Systems, Cloud Computing, Machine Learning, NLP, Computer Vision.

PROJECTS

Smart AI Attendance System

Python, OpenCV, CNN, Flask

- Offline attendance system with 89% face recognition accuracy under varying lighting conditions.
- Real-time detection pipeline processing 500+ students in under 1 second.
- Optimized CNN inference using TensorRT, reducing latency by 40%.

AI Career Guidance Platform

Python, BERT, Flask, Transformers

- Built AI-driven resume analyzer and career recommender with 85% role prediction accuracy.
- Deployed scalable backend with Flask microservices, Redis caching, and JWT authentication for 500+ concurrent users.

ACHIEVEMENTS & LEADERSHIP

- Smart India Hackathon 2025 Finalist (Top 200 teams nationwide).
- Hireready ML Engineer Award for excellence in ML pipeline optimization.
- GenAI Club Coordinator: Mentored 50+ peers and led 3 AI workshops.
- Open Source Contributor: Developed efficient modules for NLP and CV libraries.