

Ashiq Firoz

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Skills

- **Programming Languages:** C, C++, Java, Python, SQL, JavaScript, TypeScript
- **Frameworks & Libraries:** TensorFlow, MediaPipe, Huggingface, PyTorch, ReactJS, NextJS, ExpressJS, Locust, Nagios, Prometheus, Grafana, Istio, NodeJS, Langchain, Jira
- **Tools:** Git, PostgreSQL, MongoDB, Docker, Kubernetes, CUDA, GCP, AWS
- **Soft Skills:** Problem-solving, Communication, Collaboration, Public Speaking

Education

Indian Institute of Information Technology Kottayam

Nov 2022 – Nov 2026

B.Tech in Computer Science & Engineering, Specialization in AI and Data Science

GPA: 8.38/10.0

Experience

Research Intern, Bridge Connectivity Solutions PVT LTD

Jun 2024 – Jul 2024

Python, OpenCV, MediaPipe, U-Net

- Conducted survey of motion-mimicking models (2020–2024) and enhanced hand-movement mimicking using U-Net.
- Improved keyframe-extraction methods from video.
- Internship Certificate: [View Document](#)

Web Developer Intern, Bridge Connectivity Solutions PVT LTD

Jan 2024 – Mar 2024

ReactJS, Python FastAPI, Uvicorn, PostgreSQL, MediaPipe, OpenCV

- Expanded React-based gesture-recognition web app.
- Built backend services in Python FastAPI; stored vectorized posture data in PostgreSQL.
- Internship Certificate: [View Document](#)

Projects

Dravidian Language Sentiment Analysis (NAACL Paper)

Open Review

Python, PyTorch, XLM-RoBERTa

- Achieved 3rd place in CodaLab competition (F1 71%) on Dravidian sentiment dataset.
- Documented experiments; paper accepted at NAACL; camera-ready submitted.

DevOps Pipeline Integration (TODO App)

GitHub

Docker, Jenkins, SonarQube, Kubernetes, Minikube

- Set up services (MongoDB, backend, frontend) via Docker Compose.
- Built CI/CD pipeline in Jenkins; integrated SonarQube.
- Wrote Kubernetes deployment and service YAML; planning Helm chart.

Microservice Management Using TGNN

GitHub

PyTorch, TGNN, Locust, Kubernetes, Prometheus, Jaeger

- Built pipeline to predict future resource usage and request patterns with Temporal GNN.

- Generated test data using Online Boutique microservice.

Club Management Web App

GitHub

NextJS, Firebase, Python, Tailwind CSS, TypeScript

- Features: event and team management, AI-based newsletter generation, Valentine's predictor service.

Achievements

- Tech Lead, ENIGMA AI/ML Club at IIITK (Jan 2024 – Present)
- Webmaster, ACM Student Chapter IIITK (Mar 2024 – Present)
- 7th place, Smart India Hackathon 2023

Certifications

- Blockchain and Its Applications (NPTEL, IIT Kharagpur)
[View Certificate](#)
- Ethical Hacking (NPTEL, IIT Kharagpur)
[View Certificate](#)