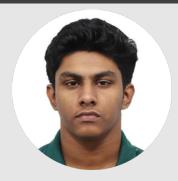
Aathil **Nishad**

Computer Science Undergraduate



About me

Motivated Computer Science undergrad at PES University with hands-on experience in machine learning. Seeking an opportunity to apply system-level thinking and problem-solving in real-world environments.

Personal

Aathil Nishad Nationality: Indian

Core Skills

Python (Intermediate) C (Basic-Intermediate) Machine Learning Deep Learning Frontend

Languages

English (Proficient) Malayalam (Native) Hindi (Intermediate)

Contact

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7012144190

EXPERIENCE

June 2025 - Aug 2025 Frontend Developer PESU VENTURE LABS · Bengaluru

- · Developed user-facing features to enhance internal workflow communication.
- Collaborated with design and backend teams for responsive UI.
- · Resolved front-end bugs and performance issues.

EDUCATION

2022-2026 BTech in Computer Science PES University · Bengaluru 🏛 GPA: 8.16/10 2020–2022 Computer Science Stream

Narayana E-Techno HSS · Bengaluru 🏛 90%

CERTIFICATIONS

Problem Solving (Basic) HackerRank

PCEP - Entry-Level Python Programmer 2024

2024

Python Institute

PROJECTS

Capstone: Electric Grid Safety Enhancement using Deep Learning

RNN, LSTM, REINFORCEMENT LEARNING ·

- ${\boldsymbol \cdot}$ Engineered a grid safety system using an LSTM Autoencoder for fault forecasting.
- · Developed a Reinforcement Learning agent to dynamically optimize fault detection thresholds.
- · Deployed a user-friendly web client for system monitoring and interaction.

Kube-9: A Distributed Systems Cluster Simulation Framework

PYTHON, DOCKER, STREAMLIT

- · Engineered a simulation by managing master/worker nodes as Docker containers with real-time health monitoring via heartbeats.
- · Implemented pod deployment and tracking with custom configurations, volume mounts, and noderesident ID arrays.
- · Designed a live Streamlit dashboard to visualise cluster state and enabled automated node/pod recovery on failure.

Non-Invasive Online Proctor

Python, Go, Machine Learning ·

- · Developed a Go client to monitor user activity in a simulated online test environment.
- · Engineered a Python AI module with an LSTM network for real-time behavioral analysis to flag suspicious
- · Built an event-driven system to distribute client-side events to the AI analysis and logging services.

Yet Another Distributed Task Queue (YADTQ)

BIG DATA, KAFKA, REDIS .

- · Created a task scheduler leveraging Kafka for message passing and Redis for state management.
- · Designed a dynamic scheduling algorithm to allocate tasks based on real-time worker node availability.
- · Implemented robust failure-handling, including heartbeat sensing and dynamic task handover to ensure seamless operation.

AWARDS