

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) 2024
HackerRank

PCEP – Entry-Level Python Programmer 2024
Python Institute

PROJECTS

Capstone: Electric Grid Safety Enhancement using Deep Learning

RNN, LSTM, REINFORCEMENT LEARNING ·

- 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 node-resident 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 activity.
- 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

2021–2024 Distinction Award — Semesters 1, 2, and 5 (PES University)