Aathil Nishad
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OBJECTIVE

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.

CORE SKILLS

Python Programming(Intermediate), C Language Programming(basic-intermediate), Machine Learning(Basics) Deep Learning Frontend

EDUCATION

PES University   Bangalore, Karnataka
BTech + Computer Science   GPA: 8.16/10   Currently in 7th Sem   Graduating Year: 2026

Narayana E-Techno Higher Secondary School   Bangalore, Karanataka
Computer Science Stream   Graduated with 90%   Graduated on 2022

WORK EXPERIENCE

PESU Venture Labs   Bangalore, Karnataka
FrontEnd Dev   June, 2025 − August, 2025

- Slated to develop and implement user-facing features for an application designed to enhance internal workflow communication.
- Collaborated with the design and backend teams to build a responsive and intuitive user interface.
- Tasked with identifying and resolving front-end bugs and performance issues to maintain project momentum and application stability.

PROJECT WORK

Kube-9: A Distributed Systems Cluster Simulation Framework *Python*

- Engineered a distributed system simulation by managing master/worker nodes as Docker containers with real-time health monitoring via heartbeats.
- Implemented pod deployment and tracking with container configurations, volume mounts, and node-resident ID arrays.
- Enabled automated node recovery and pod rescheduling on failure events, designing a live Streamlit dashboard to visualise cluster state and pod-node mapping .

Non-Invasive Online Proctor *Python/Go/Machine Learning)*

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

Yet Another Distributed Task Queue (YADTQ) *Big Data*

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

Certifications

Problem Solving(Basic) *Hackerspace*

- This certification, received on April 7, 2024

PCEP Python Certification *OpenEDG Python Institute*

- I have successfully completed the requirements to be recognised as a PCEP - Certified Entry Level Python Programmer

Awards

Distinction Award for Sem 1, 2 and 5 , Issuer: PESU

Languages

English *Proficient* **Malayalam** *Native* **Hindi** *Intermediate*