

YASHAS SADANANDA

AI/ML · Software Engineering · Agentic AI · CSE Undergraduate
yxshas565@gmail.com · +91 70228 05441 · [LinkedIn](#) · [GitHub](#) · [Portfolio](#) · [LeetCode](#)

EDUCATION

PES University, Bengaluru

Aug 2024 – Present

B.Tech in Computer Science Engineering CGPA: 7.32 / 10

Coursework: Data Structures & Algorithms, Operating Systems, Computer Networks, DBMS, OOP, Computer Architecture

EXPERIENCE

EdgeDaemon

Jun 2026 – Present

Founder & Research / Product Lead

Bengaluru, India

Product: MechGuard — Mechanistic AI safety monitoring for enterprise LLM deployments

- Lead MechGuard development, bridging training-time model-internal analysis with deployment-time LLM representation monitoring.
- Instrument training-time workflows via LoRA weight decomposition, SVD, singular-value trajectories, subspace analysis, and checkpoint instrumentation.
- Build deployment-time monitoring using residual-stream activations, linear/logistic probes, cross-agent aggregation, and activation-alignment analysis.

Single Core Labs — Research Collective

Aug 2026

Undergraduate Research Fellow

Bengaluru, India (Remote)

- Investigated Reinforcement Learning algorithms and CUDA-based acceleration pipelines for AI coding agents.
- Designed reproducible evaluation and benchmarking pipelines and contributed to a publication-oriented research environment emphasising empirical rigor and technical documentation.

PESU Venture Labs (PVL) — ABC Program

May 2026 – Jul 2026

Technology Associate Intern · Founder-Track Startup Incubation

Bengaluru, India

- Selected for the ABC founder-track incubation to architect EdgeDaemon, an AI decision-provenance and auditability platform for regulated industries.
- Led full-stack prototyping across React, FastAPI, and LLM-powered agentic pipelines alongside investor-facing technical and go-to-market materials.

SELECTED PROJECTS

Sunrise AI Voice Agent

AI / Full-Stack Application | Sep 2026

Next.js, FastAPI, Exotel, Sarvam Voice Agent, SQLite

- Engineered an AI voice application being productionised for outbound calling, multilingual lead qualification (English / Hindi / Hinglish), and structured data extraction via Exotel telephony.
- Built webhooks, call-state handling, phone normalisation, and a Next.js operational dashboard for conversation management and lead oversight.

Weather Risk Forecasting

Data Science / ML | Aug 2026

Python, Pandas, NumPy, scikit-learn, Streamlit

- Built a location-aware weather forecasting pipeline with lag, rolling-window, seasonal, and geographic feature engineering for multi-horizon risk prediction.
- Developed uncertainty estimation, interpretable risk scoring, and a Streamlit application combining forecasting, visualisation, and spatial insights.

MilletDataNet

Computer Vision / ML System | Jun – Jul 2026

Python, PyTorch, ResNet18, FastAPI, React, MQTT

- Built an end-to-end CV pipeline for millet leaf disease classification using fine-tuned ResNet18, cross-validation, class rebalancing, and inference provenance logging.
- Connected the ML service to a React dashboard and simulated MQTT IoT layer, enabling sensor-to-inference data flow for field-deployable disease monitoring.

Autonomous ML Pipeline Orchestration Agent

AI / ML Systems — GitLab AI Hackathon | Mar – Apr 2026

Python, LangGraph, Claude Sonnet, FastAPI, Docker, GitLab CI/CD, scikit-learn, XGBoost

- Designed an autonomous multi-agent ML workflow spanning issue interpretation, dataset profiling, strategy selection, code generation, execution, and reporting.
- Implemented typed LangGraph state graphs with JSON observability; integrated Hugging Face deployment, automated testing, and GitLab CI/CD into a reproducible pipeline.

TECHNICAL SKILLS

Programming: Python, C, C++, JavaScript, TypeScript, SQL, OOP

Machine Learning & AI: PyTorch, scikit-learn, XGBoost, Hugging Face Transformers, Deep Learning, Reinforcement Learning, LSTM

Generative AI & Agents: LLMs, Agentic AI, RAG, LangGraph, LangChain, Multi-Agent Systems, Prompt Engineering

Data Science: Pandas, NumPy, Matplotlib, Feature Engineering, Data Visualization

Backend & DevOps: FastAPI, REST APIs, Docker, Git, GitHub, GitLab CI/CD, Linux

Databases & Cloud: SQLite, MySQL, PostgreSQL, Google Cloud, Microsoft Azure

Other: React, Next.js, Node.js, Express.js, Streamlit, MQTT, OpenEnv

LEADERSHIP & ACTIVITIES

Open Source: GirlScript Summer of Code (GSSoC), SSoC, Hugging Face

Google Student Ambassador: Gemini Student Ambassador Program

Technical Clubs: IEEE RAS PESUECC Robotics Club — Technical Domain · IEEE EC Campus — Technical Domain · Kannada Koota — IT / Technical Domain

CERTIFICATIONS & PROGRAMS

Anthropic: AI Fluency in AI & Claude 101

Microsoft Azure: Generative AI & Neural Networks

Google Cloud: Cloud Foundations & ML Credentials

IIT Patna: Artificial Intelligence & Machine Learning

Adobe: University Hackathon — Participant

McKinsey: Forward Learning Programme — Participant

HackerRank: Python Advanced

CodeChef: C