Soham Yedgaonkar

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EDUCATION

Pune Institute of Computer Technology	2022-2026

B.E. Information Technology with AIML Honors — **Current CGPA: 9.05**

Courses: Object-Oriented Programming, Data Structures & Algorithms, Calculus, Database Management, Storage Solutions, Computer Networks, Software Engineering

SKILLS AND COMPETENCIES

Technologies: Software Development, Data Science, Machine Learning, Artificial Intelligence, MLOps, CI/CD

Languages: Python (proficient), C/C++, Java, Bash, JavaScript, Typescript,HTML/CSS, MySQL

Tools: Git/GitHub, Kubernetes , Jupyter Notebook, SQL, Linux , Unix , Docker, Supabase/Firebase

PROFESSIONAL EXPERIENCE

Research and Development Intern at CDAC-Pune	July 2024 - Jan 2025

- Engineered and fine-tuned versatile computer vision models by experimenting with over 7 diverse architectures, achieving a 35% increase in object detection accuracy
- Developed drone-based real-time noise monitoring system integrated with IoT, cloud processing, and AI-driven analysis for noisy objects detection applications with intellectual log analysis bot
- Collaborated with a team of CDAC scientists to deliver end-to-end solutions, reducing model deployment time by 30%

Software Engineering Intern at Firmway	Feb 2025 - Present

- Developing and optimizing automation workflows for complex commerce finance tasks, improving reconciliation efficiency by 40%
- Automated Complex Data Pipelines to build scalable backend services, enhancing data processing speed for financial reports with 0 human intervention using Doctr , GMFT and TF-IDF
- Integrating third-party APIs to streamline financial data validation, reducing manual efforts by 90% using Docker and FastAPI

PROJECTS

Women's Safety Incident Reporting System : React, TypeScript, AI-agents , Supabase, Computer Vision, Tailwind CSS, RAG, PostgreSQL ● GitHub

- Developed a full-stack web application with real-time incident reporting and OSM integration for precise location tracking.
- Integrated an AI-powered RAG System using NVIDIA API for guided incident reporting, natural language processing, and automated summary generation.
- Implemented a live CCTV monitoring system using computer vision for person detection, gender classification, gesture recognition, and anomaly detection with a accuracy of 93%.
- Designed and deployed a secure PostgreSQL database with row-level security for real-time data synchronization and secure file storage.
- Built a responsive and mobile-friendly interface using Tailwind CSS and shadcn/ui, enhancing user experience across devices.
- Achieved seamless integration of third-party APIs like OSM JavaScript API to enable interactive and intuitive incident reporting features.

CogniLearn - Adaptive Learning System : React, TypeScript, Node.js, Hugging Face, RAG, Pinecone, TensorFlow, LangChain ● GitHub

- Developed an AI-driven adaptive learning platform for personalized education based on user behavior and goals ,Integrating RAG-based AI using Hugging Face models and Pinecone for real-time, context-aware content recommendations.
- Implemented a course recommendation system using TensorFlow and Keras, enhancing personalized learning paths.
- Built an interactive frontend with React and TypeScript, ensuring a seamless user experience.
- Designed a scalable backend with Node.js and PostgreSQL for efficient data management and real-time synchronization.
- Enhanced engagement with gamification features like leaderboards, badges, and peer learning clusters.

CERTIFICATIONS

DevOps with AWS *(Coursera)* ● Certificate Link

- Gained hands-on experience in implementing CI/CD pipelines and deploying scalable applications on AWS.

Stanford's Machine Learning Specialization *(Coursera)* ● Certificate Link

- Completed courses on Supervised and Unsupervised Learning, gaining expertise in regression, classification, clustering, and reinforcement learning.

ACHIEVEMENTS

Winner - TechFiesta International Hackathon 2025	2025
AIR 1 - Brainathon'25 (CDAC Delhi)	2025
5x Hackathon Champion	2025
Top Machine Learning Voice on LinkedIn	2024
AIR 160 / 75,000 - Amazon ML Challenge	2024