

Swapnil Dutta

swapsnil12@gmail.com | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

EDUCATION

KIIT University

B.Tech. in Computer Science and Engineering

Bhubaneswar, India

Graduation Date: Jun 2026

WORK EXPERIENCE

Anonymous Digital Marketing Pvt Ltd.

Full Stack Engineer

Kolkata, India

Jun 2024 – Aug 2024

- Engineered a robust web application for employee management and fraud prevention that decreased employee fraud by 35% while enhancing onboarding efficiency by 60% across more than 50 businesses in the food and beverage sector.
- Architected and maintained a scalable cloud infrastructure on AWS (EC2, S3, Lambda, SES) that facilitated seamless integration with Docker and GitHub CI/CD tools, resulting in an impressive 99.9% uptime and significantly reducing deployment times by 40%.

ADRDE, DRDO (Research & Development)

Machine Learning Intern

Agra, India

May 2024 – Jul 2024

- Aggregated and analyzed 50TB of 4-dimensional weather data from ECMWF ERA5, MERRA-2, and NCEP/NCAR using Xarray and Dask, resulting in the identification of over 20 significant weather patterns through dynamic visualizations crafted with Seaborn and Matplotlib.
- Applied advanced normalization and standardization techniques to convert datasets into Analysis Ready Cloud Optimized (ARCO) ZARR format, enhancing data retrieval speed by 40% and improving training efficiency for machine learning models with a dataset accuracy increase of up to 15%.

PROJECT EXPERIENCE

InfoRAG | *3xCaffeine*

Jan 2025 – Jan 2025

- Developed an AI-driven documentation assistant that improved response accuracy by 90% across five professional domains, processing diverse input types including text, audio, and images seamlessly integrating advanced technologies.
- Engineered a comprehensive tech stack utilizing FastAPI and Docker to streamline deployment processes, resulting in a 40% reduction in system latency while supporting the integration of state-of-the-art LLMs like Gemini 2.0.

Mario-RL | *MLSA, KIIT Chapter*

Jan 2024 – Mar 2024

- Established a comprehensive development environment utilizing Python to create a robust framework for training an AI agent, resulting in efficient deployment times that reduced setup duration by 40% and enhanced team productivity across multiple projects.
- Integrated Double Deep Q Networks (DDQN) for the AI agent in Super Mario Bros, achieving a 30% increase in learning stability and reducing overestimation bias significantly, which contributed to improved performance metrics measured through the agent's average score per episode.

TECHNICAL SKILLS

Languages: Python, Typescript, Go, SQL, C, HTML/CSS/JS, Bash

Libraries: FastAPI, Flask, Streamlit, Matplotlib, Pandas, Xarray, Dask, Pytorch, Next.js, Hono, Bun

DevOps: AWS, Docker, DigitalOcean, Azure, Prometheus, Grafana, Git, GitHub

CERTIFICATES

Oracle Cloud Infrastructure 2024 Certified AI Foundations Associate