Anshuman Mohapatra

GitHub

anshuman.mohapatra04@gmail.com
+91 79782 94262

PROJECTS

Kubernetes Containerized Code Execution Platform
[Mar – Apr 2025 | Python, Flask, React, Docker, Kubernetes, Nginx]

Built a secure multi-language code execution platform (Python, JS, Java, C++) using Flask APIs in isolated containers. Dockerized frontend/backend with multi-stage builds, deployed on Kubernetes with Ingress and namespace isolation. Enabled scalable DevOps with Nginx.

Multi-Stage Dockerized Web Scraper
[Apr 2025 | Docker, Node.js, Puppeteer, Python, Flask, Alpine Linux]

Designed a lightweight multi-stage Docker scraper using Node.js (Puppeteer) and Flask. Reduced image size by 70% with Alpine, enhanced security with non-root users, and improved container startup by 30%. Served scraped data via Flask API.

Full Stack Chat Application Deployment
[Apr 2025 | *DevOps, Cloud, CI/CD, Kubernetes*]

Automated build and deployment with GitHub Actions. Created Kubernetes manifests for backend, frontend, and MongoDB, enabling cloud scalability on AWS.

AI-Powered Chatbot
[Feb 2025 | Python, Flask, Langchain, Hugging Face, FAISS, LLMs]

Built an RAG-based chatbot using FAISS for semantic search and Falcon 7B via Hugging Face. Scraped and chunked Brainlox data, embedded using MiniLM, and served responses via a Flask API with secure key handling and logging

Real-time Cryptocurrency Data Integration
[Feb 2025 | Python, REST API, Pandas, CoinGecko API, Data Automation]

Automated crypto analytics using CoinGecko API. Fetched top 50 coins every 5 minutes, analyzed trends with Pandas, and logged metrics (gainers, losers, averages) to CSV for live dashboards.

Flask Blog Application
[Oct - Dec 2024 | Python, Flask, SQLAlchemy, Flask-WTF, Flask-Bcrypt, Jinja2]

Developed a blog with user auth, CRUD posts, and responsive UI. Used SQLAlchemy, Flask-Migrate, CSRF-protected forms, and Bcrypt-secure passwords.

SKILLS

Cloud & DevOps: AWS EC2/S3, Docker, Kubernetes, Helm, YAML, CI/CD pipelines

Programming: Python, Java, JavaScript, C++

Infrastructure: Microservices architecture, Container orchestration

Tools: Git, GitHub, Prometheus/Grafana (basics),

Web Technologies: Flask, REST APIs, HTML/CSS, React (Basic)

AI Integration: LangChain, Hugging Face, FAISS

ADDITIONAL EXPERIENCE

Content Creator & Editor

Created tech videos (104K+ views) using Premiere Pro, DaVinci Resolve & Audacity.

Improved audio clarity by 95% with noise reduction.

EDUCATION

B.Tech - Computer Science & Engineering, ITER, SOA University, 2022 - 2026

Senior Secondary, CBSE, St. Xavier's High School | 2022

Secondary, CBSE, DAV Public School, 2020