ARNAB DAS

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EXPERIENCE

EdgeVerve ⬀ — **Sep 2022 – Present**
Senior Member of Technical Staff (PE)

- Architected and implemented Centralized User Management with IAM Keycloak, leveraging FastAPI for the backend, leading to 40% faster authentication processing and enhanced security compliance.
- Developed multiple Proof of Concepts (POC) with FastAPI, Gen AI, AI Agents (LangChain, CrewAI), Kong API Gateway, OIDC, SAML Protocol resulting in 30% reduced development time for future integrations.
- Collaborated with cross-functional teams, ensuring seamless integration of APIs and microservices, which reduced deployment failures by 50% through robust CI/CD pipelines using GitHub Actions, Jenkins.

Infosys ⬀ — **Jan 2021 – Sep 2022**
Specialist Programmer

- Designed and optimized various Logistics backend APIs for XPO Clients, transitioning to FastAPI and Flask with Azure Cloud, RabbitMQ, Kafka, Kibana, Grafana, Prometheus, and New Relic leading to 30% faster data processing and 20% cost reduction.
- Achieved back-to-back victories in the prestigious Infosys STG Group Internal Hackathon.

John Deere ⬀ — **Aug 2019 – Mar 2020**
Software Intern

- Developed a Tkinter-based dashboard for real-time data visualization, an RPA tool for automated data entry, SAP HANA, ELT pipelines, and an image recognition system using OpenCV, Pandas, and TensorFlow.

PROJECTS

Nandi AI ⬀ | FastAPI, OpenAI, Gemini, Cohere, LlamaIndex, RAG, Pinecone, Twillo — **Jan 2025**

- Generative AI-based tax information portal that leverages semantic splitting, embeddings in Pinecone and MongoDB, to help users query Indian court tax judgments related to Direct and Indirect taxes.

Hitaya Finance ⦿⬀ | FastAPI, React, Kafka, Keycloak, Kong, PostgreSQL, Gemini, and Stripe — **Jun 2024**

- Built a Multi-Agent Framework for Financial Analysis using CrewAI, leveraging PEER (Plan, Execute, Express, Review) and DOE (Data-fining, Opinion-inject, Express) modes to enhance market trend prediction, optimize portfolios, and improve data accuracy by 40%.

HitayaOne ⦿⬀ | Flask, PostgreSQL, Tensorflow, Pytorch, ReactJS, Neo4j, Google Cloud — **Jan 2024**

- Developed Medical Diagnosis App, an AI/ML-powered application that leverages PyTorch, TensorFlow, Scikit-learn, XGBoost, and Pandas to analyze x-ray scans and medical data for accurate diagnosis, aiding healthcare professionals in detecting disease patterns and enhancing patient care.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, SQL, LUA, C#, CSS, HTML, TypeScript
Developer Tools: Jupyter Notebook, Git, Azure, PyCharm, VS Code, GitHub, Azure, AWS, GCP, Postman
Technologies/Frameworks: FastAPI, Flask, Django, Pandas, Tensorflow, PyTorch, Angular, React, Docker, Linux, Docker, Kong API Gateway, Kubernetes, LLMs, Keycloak

EDUCATION

Asansol Engineering College — **2016 – 2020**
*B.Tech in Computer Science Engineering - **CGPA - 8.74/10***

CERTIFICATIONS

- Generative AI Specialization ⬀
- Tensorflow Developer ⬀
- Deep Learning Specialization ⬀
- Software Architecture ⬀
- Practical Devops ⬀
- Natural Language Processing ⬀

PUBLICATIONS

Construction of Efficient Wireless Sensor Networks for Energy Minimization using a Modified ACO Algorithm ⬀

ACHIEVEMENTS

- Won 23+ Global Hackathons ⬀
- LeetCode 1450+ Question Solved ⬀
- Informatica Data Hackathon (1st Prize 4000 USD) ⬀
- Intel Hackathon (2nd Prize 2000 USD) ⬀
- Accenture Sustainability Hackathon (2nd Prize) ⬀
- KPMG Global Hackathon (2nd Prize 4000 USD) ⬀
- ATMECS Global GEN AI Hackathon (3rd Prize) ⬀
- SMILe Logistics Innovation Hack (2nd Prize) ⬀
- Indegene Hackathon (1st Prize) ⬀
- Coinbase Global Hack for Web3 (3rd Prize) ⬀