

# ARNAB DAS

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## EXPERIENCE

### EdgeVerve

Sep 2022 – Present

#### Senior Member of Technical Staff (PE)

- Designed and deployed scalable ML models for AI-driven applications, integrating LLMs, FastAPI, and Generative AI to enhance automation and decision-making.
- Developed AI Agents (LangChain, CrewAI) and fine-tuned transformer-based models, reducing ML pipeline development time by 30%.
- Led cross-functional collaborations, optimizing MLOps pipelines with CI/CD, reducing deployment failures by 50%.

### Infosys

Jan 2021 – Sep 2022

#### Specialist Programmer

- Developed ML-powered anomaly detection models for logistics operations, reducing error rates by 35%
- Implemented predictive analytics models using TensorFlow, PyTorch, and Scikit-learn, improving forecasting accuracy by 20%.
- Designed real-time streaming data pipelines leveraging Azure Cloud, Kafka, and Prometheus.

### John Deere

Aug 2019 – Mar 2020

#### Software Intern

- Developed a computer vision model using OpenCV and TensorFlow to automate defect detection in manufacturing processes.
- Built an RPA tool for automated data entry and real-time dashboard visualization using Tkinter and Pandas.

## PROJECTS

### Nandi AI | FastAPI, OpenAI, Gemini, Cohere, LlamaIndex, RAG, Pinecone, Twilio

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, LLMs and deep learning 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 | CNNs, XGBoost, NLP, Yolo, Flask, PostgreSQL, Tensorflow, Pytorch, ReactJS

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

**ML Frameworks:** TensorFlow, PyTorch, Scikit-learn, XGBoost

**MLOps Cloud:** Docker, Kubernetes, Azure, AWS, GCP, FastAPI

**Data Engineering:** Pandas, Seaborn, Matplotlib, Numpy, Apache Kafka, RabbitMQ, Neo4j, PostgreSQL

**AI/LLMs:** LangChain, Cohere, CrewAI, OpenAI, Gemini, Pinecone

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