Soumya Ranjan Swain

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EXPERIENCE

Elint Data, Bengaluru — *Data scientist*

September 2023 - PRESENT

Elint Data | Data Scientist

- Built AI/ML-driven Dynamic Pricing Engine for WeWork, optimizing private office pricing and revenue.

- Applied XGBoost, TensorFlow, K-Means for demand forecasting, pricing trends, and churn prediction.

- Developed scalable data pipelines with Python, CI/CD automation, and API deployment.

- Conducted EDA & feature engineering to enhance model performance.

- Designed an AI-powered Grocery Inventory System with OCR, MongoDB, and LLaMA 3 + LangChain.

- Expertise in Generative AI, RAG, LangChain, and Azure OpenAI.

EDUCATION

College of Engineering, Bhubaneswar — *MCA*

September 2021 - August 2023

MCA [G.P.A -8.0]

SKILLS

Python, Pandas, NumPy, SQL, Object-Oriented Programming (OOP), API Development, Reusable Python Libraries,XGBoost, TensorFlow, K-Means, Deep Learning, Neural Networks, Predictive Modeling, Generative AI, LLaMA 3, LlamaIndex, Retrieval-Augmented Generation (RAG),Data Preprocessing, Feature Engineering, Exploratory Data Analysis (EDA), Time-Series Analysis, Customer Churn Prediction, Demand Forecasting, Pricing Optimization, Data Pipeline Development, CI/CD Integration, Docker, API Deployment, MongoDB, Azure Blob Storage, AWS Sagemaker,NLP Text-Mining, Sentiment Analysis, Voice Analytics, Prompt Engineering, Hugging Face, Groq,Gradio, LangChain, Email Automation,Power BI, Data Visualization.

PROJECTS

1. Dynamic Pricing Engine for WeWork (Co-Working Company)

- Optimized pricing strategies using predictive models, resulting in a 15% increase in profit by improvingcustomer retention, attracting new businesses, and maintaining efficient inventory management.

- Spearheaded end-to-end data pipeline development using Python libraries (e.g., Pandas, NumPy), CI/CDintegration, API deployment and Docker for containerization for the pricing engine.

- Developed and refined predictive models, including Deep Learning(TensorFlow), XGBoost, and K-means,to forecast pricing, revenues, churn, and demand. Created reusable Python OOPs-based libraries tostandardize data preprocessing and model evaluation workflows.

2. Grocery AI Agent for Smart Inventory Management

- Developed an AI-powered grocery inventory assistant to predict item expiration, suggest recipes, and optimize consumption planning.
- Integrated **OCR (Google Tesseract)** to extract item details from grocery bills and **MongoDB** for inventory tracking.
- Built an expiry prediction model using **XGBoost** to forecast spoilage trends and send automated alerts.
- Implemented a recipe recommendation engine using **LLaMA 3 + LangChain**, fetching meal suggestions based on available ingredients.
- Designed a weekly meal planner that prioritizes items nearing expiration to minimize food waste.
- Deployed a user-friendly interface using **Gradio** and automated notifications via Email.