

JAINISH SAVALIYA

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EXPERIENCE

Syracuse University

New York, USA

Research Analyst (Python, Streamlit, OpenAI, HuggingFace, Databricks, FastAPI)

June 2024 – Present

- Enhanced e-commerce chatbot accuracy to 95% , boosting user engagement by 40% and Net Promoter Score (NPS) by 20%.
- Optimized response coherence with OpenAI's LLM, boosting conversion rate by 30% and reducing churn rate by 15%.
- Developed vector databases and function-based bots using HuggingFace embeddings for personalized shopping experiences, elevating Customer Satisfaction (CSAT) by 25% and increasing revenue per user (ARPU) by 18%.
- Created a Streamlit interface and implemented FastAPI, cutting data retrieval time by 50% and improving system scalability.

Data Analyst (Python, Databricks, Snowflake, MLflow, Apache Spark, Kafka)

September 2023 – June 2024

- Improved sales forecasting by 15% using ARIMA and XGBoost, boosting Average Order Value by 10% across 5 categories.
- Integrated data from 10 sources using Databricks, improving inventory accuracy by 20%.
- Optimized data processing with Apache Spark, reducing report time by 60% for daily insights.
- Used Kafka for targeted marketing, increasing email open rates by 15%, Conversion Rates by 8%, and Customer Retention by 5%

Saeculum Solutions Pvt Ltd.

Gujarat, India

Software Engineer (Python, FastAPI, Flask, React, AWS, CI/CD, GitHub Actions, Docker)

June 2020 – July 2022

- Developed and deployed RESTful APIs for recommendation systems, increasing conversion rate by 20% and click-through rate by 18%.
- Implemented secure authentication and API request handling, significantly reducing churn rate by 15%.
- Engineered and maintained a full-stack CRUD application using React and Flask, improving customer satisfaction (CSAT) scores by 10%.
- Implemented CI/CD pipelines using GitHub Actions and Docker, cutting deployment time by 40% and enhancing system reliability.
- Built scalable data pipelines on AWS, optimizing revenue per user (ARPU) by 15% and supporting data-driven product roadmap decisions.

PROJECTS

Cards Image Dataset Classification (Python, PyTorch, EfficientNet-B0)

February 2024

- Developed a deep learning model using EfficientNet-B0, achieving a 95% accuracy on the testset and reducing validation loss by 30%.
- Implemented a robust preprocessing pipeline and prediction visualization, leading to a 20% improvement in classification efficiency and a 15% boost in model interpretability.

Movie Recommendation System (Python, Scikit-learn)

November 2023

- Developed and optimized a movie recommendation system using content-based and collaborative filtering techniques, leading to a 20% increase in Click-Through Rate (CTR) and a 15% boost in User Engagement.
- Implemented feature engineering and similarity metrics to improve recommendation accuracy, resulting in a 25% rise in average watch time and an increase in returning users by 10%.

Credit Card Fraud Detection (Python, XGBoost, Random Forest, Neural Networks, SMOTE, Scikit-learn, AUC)

January 2023

- Developed and compared XGBoost, Neural Network and Random Forest models, achieving 85% recall and 83% precision.
- Used SMOTE to address data imbalance, resulting in an AUC of 0.90, a 12% increase in the Perfect Order Index, and a 5% boost in customer satisfaction (CSAT).

EDUCATION

Syracuse University, School of Information

New York, USA

Master of Science | Information Systems | Advanced Certification in Data Science (GPA: 3.7/4.0).

August 2022 – May 2024

Dharmsinh Desai University, College of Engineering

Gujarat, India

Bachelor of Technology | Instrumentation and Control Engineering (GPA: 3.2/4.0)

July 2017 - May 2021

SKILLS

Programming & ML Frameworks: Python, SQL, R, C++, TensorFlow, PyTorch, Keras, Scikit-learn, XGBoost, LightGBM

Deep Learning & NLP: CNNs, RNNs, LSTM, Transformers, BERT, GPT, Word2Vec

ML Algorithms: Linear/Logistic Regression, SVM, Random Forests, Gradient Boosting, K-means, PCA

Big Data & Cloud Technologies: Apache Spark (PySpark), AWS (SageMaker, EC2, S3), Google Cloud AI Platform, Azure ML

MLOps & Deployment: Docker, Kubernetes, MLflow, TensorFlow Serving, Flask, Streamlit

Data Processing & Visualization: Pandas, NumPy, Matplotlib, Seaborn, Plotly, Tableau

Version Control & CI/CD: Git, GitHub Actions, Jenkins