G.JAYA BHARATH

AI / ML Engineer

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Data Scientist with hands-on experience in building AI/ML solutions for retail analytics, recommendation systems, and NLP applications. Skilled in developing scalable ML pipelines using Azure ML and Docker, with expertise in Generative AI, Transformers, and Lang Chain. Passionate about applying advanced data science techniques to solve real-world business challenges.

Experience

Data Scientist - AIML Labs Pvt.Ltd   *10/2023-present*

- Strong foundation in Data Science, Machine Learning, and AI with hands-on project experience across multiple domains
- Skilled in Python, ML, SQL and NLP for data cleaning, preprocessing, feature engineering, and advanced analytics
- Experienced in building supervised and unsupervised ML models for classification, regression, clustering, and prediction tasks
- Implemented Credit Risk Assessment System using classification algorithms (Logistic Regression, Random Forest, XGBoost) with Azure ML deployment.
- Proficient in data visualization and storytelling using Matplotlib, and Seaborn to generate business insights. .Strong background in statistical analysis including hypothesis testing, regression modeling, and A/B testing frameworks
- Developed end-to-end ML pipelines for demand forecasting, churn prediction, and personalization using Azure ML & Docker, improving prediction accuracy by 15%

SKILLS

- **Programming :** - Python,SQL
- **Machine Learning & AI:**- Scikit-learn, TensorFlow, PyTorch, XGBoost, NLP, Generative AI
- **Data Analysis & Processing:**- Pandas, NumPy, Feature Engineering , Data Wrangling
- **Visualization Tools:**- Matplotlib, Seaborn, Interactive Dashboards, Data Storytelling
- **Statistics & Analytics:**- Hypothesis Testing, Regression, Classification, Clustering, A/B Testing
- **AI & LLM Tools:**- LangChain, LangGraph, OpenAI API, Prompt Engineering,Vector Databases, Hugging Face
- **Databases:** - MySQL, MongoDB, PostgreSQL
- **Web Technologies:**- HTML5,CSS3
- **Tools & Technologies:**- Git,VS Code,Docker

Education

K.S.R.M COLLEGE OF ENGINEERING   2019-2023

- Bachelor of Technology
- Computer Science and Engineering

PROJECTS

Real-Time Customer Support Chatbot -GEN AI

Description:-
- Developed a real-time AI-powered chatbot using NLP and Large Language Models to automate customer support and handle multi-turn conversations.
- Implemented Retrieval-Augmented Generation (RAG) to fetch accurate, context-aware responses from internal knowledge bases and FAQs.
- Built scalable REST APIs and integrated the chatbot across web and mobile platforms for seamless real-time interactions.
- Deployed cloud-based, containerized services with continuous monitoring to optimize performance, accuracy, and user experience.

Roles and Responsibilities:-
- Architected the end-to-end chatbot system including intent detection, dialogue management, and response generation pipelines.
- Developed NLP workflows for text preprocessing, tokenization, and intent classification
- Monitored system performance including response latency, accuracy, and user satisfaction metrics.
- Integrated chatbot across web and mobile platforms for omnichannel support.

Tools :-
Hugging Face, LLMs,LangChain,NLP pipeline,Vector Databases(FAISS/Pinecone),Azure Bot Service ,SQL

Intelligent Loan Origination System with Multi-Agent Architecture - AI

Description:-
- Designed machine learning models to predict customer churn and identify fraudulent transactions using behavioral and demographic data.
- Enabled early risk detection to support proactive retention campaigns and reduce revenue loss.
- Developed end-to-end data pipelines for preprocessing, modeling, and real-time prediction workflows.
- Delivered interpretable insights to stakeholders for data-driven decision-making

Roles and Responsibilities:-
- Designed a multi-agent system with specialized agents for document parsing, validation, risk scoring, and decision-making.
- Built NLP pipelines to extract structured information from KYC documents, loan forms, and financial statements.
- Implemented LLM-based agents for contextual reasoning, customer query handling, and automated recommendations.
- Evaluated models using ROC-AUC, Precision-Recall, and F1-score and optimized performance through tuning.
- Automated end-to-end workflows to reduce processing time and improve operational efficiency.

Tools:-
LLMs,LangChain,MultiAgent,Frameworks,PromptEngineering,XGBoost,NLP,Transformers,FastAPI,REST APIs

Customer Churn and Fraud Classification System - ML

Description:-

- Designed machine learning models to predict customer churn and identify fraudulent transactions using behavioral and demographic data.
- Enabled early risk detection to support proactive retention campaigns and reduce revenue loss.
- Developed end-to-end data pipelines for preprocessing, modeling, and real-time prediction workflows.
- Delivered interpretable insights to stakeholders for data-driven decision-making

Roles and Responsibilities:-

- Performed data cleaning, transformation, and exploratory data analysis (EDA) on large customer datasets.
- Built and evaluated classification models including Logistic Regression, Random Forest, Gradient Boosting, and XGBoost.
- Handled class imbalance using SMOTE and stratified sampling techniques.
- Optimized model performance using hyperparameter tuning with cross-validation and grid search.

Tools :-

Python,Numpy,Scikit-learn,XGBoost,SMOTE,SQL,Matplotlib/Seaborn,   MLflow,   Model Evaluation Metrics