

G.JAYA BHARATH

DATA SCIENTIST

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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

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
- 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

● Intelligent News Analysis and Summarization Platform -GEN AI

Description:-

- Developed an AI-powered news summarization tool using NLP and Transform
- Implemented extractive and abstractive techniques with Flask and React.js for real-time summary generation
- Achieved ~85% accuracy, enabling users to quickly grasp key insights from complex news articles

Roles and Responsibilities:-

- Assisted in data collection, cleaning, and preprocessing of news articles for model training.
- Supported API integration and frontend-backend connectivity using Flask and React.js
- Performed model testing, evaluation, and debugging to ensure accurate, realtime summary generation across multiple news sources.

Tools :- Python, Natural Language Processing, Transformers, Flask, React.js, News API

● Personalized Movie Recommendation and Analysis Platform - ML

Description:-

- Built a machine learning-based movie recommendation system using collaborative and content-based filtering to personalize suggestions.
- Analyzed user ratings, genres, and viewing patterns to enhance recommendation relevance.
- Achieved ~82% user satisfaction, improving content discovery and user engagement

Roles and Responsibilities:-

- Assisted in collecting, cleaning, and preprocessing movie and user rating datasets for model training.
- Supported implementation of collaborative and content-based filtering algorithms using Python and Scikit-learn.
- Helped in building dashboards and testing recommendation outputs to ensure accuracy and user engagement.
- Contributed to optimizing model performance and improving recommendation accuracy through parameter tuning and result analysis.

Tools :- Python, Scikit-learn, Pandas, NumPy, SQL, Matplotlib, Jupyter Notebook

● Real-Time Facial Recognition and Tracking System for Criminal - ML

Description:-

- Developed a real-time facial recognition system using Python and OpenCV, achieving ~75% accuracy in live video detection and tracking.
- Implemented Haar Cascade for face detection and LBPH (Local Binary Patterns Histograms) for facial recognition.
- Ensured ethical AI use through privacy-preserving techniques and data protection compliance.

Roles and Responsibilities:-

- Captured and processed live webcam video for face detection and recognition
- Applied LBPH algorithm for identity matching with high reliability
- Conducted model training, dataset preparation, and testing
- Tuned parameters to balance speed and accuracy at ~75% recognition rate

Tools :- Python, OpenCV, ML, LBPH Algorithm, Haar Cascade Classifier, PyCharm.