Mimin Chandran K

miminchandrankalari@gmail.com | +91-62825-46402 | Palakkad, Kerala
linkedin.com/in/miminchandrank

EDUCATION

Hindusthan College of Engineering and Technology, Anna University 2020 – 2024
B.Tech in Artificial Intelligence and Machine Learning GPA: 8.34 / 10

PROFESSIONAL EXPERIENCE

Bridgeon Solutions – Data Scientist Jul 2024 – Present

- Designed and deployed machine learning models for sales forecasting, increasing prediction accuracy by 20% and reducing latency by 30%.
- Automated ETL workflows using Python, SQL, and Apache Airflow; improved data pipeline efficiency and delivery time by 40%.
- Implemented CI/CD pipelines using Docker and GitHub Actions, cutting model release cycles by 60%.
- Delivered real-time data dashboards via Power BI, enabling faster decision-making with 25% improvement in insights.
- Integrated ML APIs into production apps with FastAPI and Flask, maintaining 98% service uptime for real-time inference.

KEY PROJECTS

Document Intelligence Suite

- Architected a RAG-based PDF chatbot using LLaMA3, FAISS, and Google GenAI for precise semantic querying.
- Orchestrated LangChain pipelines with Groq-hosted LLaMA3-70B and PyPDF2 for real-time document analysis.
- Built a streamlined Streamlit UI to interact with legal, research, and policy PDFs intelligently.

RAG-Powered CSV Chatbot – Streamlit + OpenAI + Pandas

- Developed an AI chatbot leveraging Retrieval-Augmented Generation for querying CSV data via natural language.
- Enabled real-time file upload, profiling, and data QA on datasets up to 200MB with a user-friendly interface.
- Delivered evidence-based Q&A with embedded Pandas logic, boosting analytical speed and usability by 25%.

Real-Time Face Mask Detection System

- Constructed a live surveillance system using OpenCV, Haar Cascades, and CNNs to detect face masks with 95%+ accuracy.
- Embedded webcam feed, confidence scores, and UI for public safety monitoring using TensorFlow and Keras.

Customer Churn Prediction (ChurnGuard AI)

- Engineered a binary classifier with Scikit-learn and TensorFlow; reached an F1 score of 82%.
- Launched using Docker and Streamlit; reduced customer churn by 15% in pilot deployments.

Health Insurance Cost Prediction

- Formulated XGBoost and Linear Regression models to estimate policy costs; attained over 90% accuracy on test data.
- Released on Heroku with 500+ real-time user interactions.

Emotion Recognition from Faces

- Designed a real-time facial emotion recognition tool using CNN and OpenCV; delivered sub-100ms inference speed.

Car Price Estimator Web App

- Assembled a regression model for car pricing with optimized feature selection and Streamlit-based UI.

Movie Recommendation Engine

- Created a content-based recommendation system using cosine similarity; increased session engagement by 25%.

Recipe Rating Predictor

- Produced a rating prediction model with XGBoost; incorporated DVC for experiment tracking and improved RMSE by 18%.

SKILLS

Languages: Python, SQL (PostgreSQL, MySQL)
Frameworks/Libraries:YOLO, TensorFlow, PyTorch, Keras, Scikit-learn, XGBoost, Pandas, NumPy, OpenCV, Matplotlib, Seaborn
MLOps/DevOps: Docker, Git, GitHub Actions, Flask, FastAPI, Airflow
Tools: Jupyter, Streamlit, Power BI, Tableau, Excel, DVC
Techniques: Supervised Learning, Unsupervised Learning, CNNs, Time Series, Feature Engineering, Model Tuning, Model Monitoring
Soft Skills: Agile Development, Communication, Stakeholder Collaboration, Rapid Prototyping

CERTIFICATIONS

- Generative AI – LinkedIn Learning
- Predictive Modeling I – Cognitive Class
- BI & Predictive Analytics – Udemy
- Python Development & Data Science – MTF Institute
- Signal Processing Onramp – MathWorks
- SQL & Relational Databases – Cognitive Class
- SQL for Data Analysis – Great Learning
- Data Analysis with Python – IBM
- Data Analysis Foundations – IBM
- Career Essentials in Data Analysis – Microsoft
- Image Processing Onramp – MathWorks