

AKHIL P M

Machine Learning Engineer

Muscat, Oman

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Portfolio: <https://akhilpm156.github.io/profile>

Professional Summary

Aspiring Machine Learning Engineer with hands-on experience in machine learning, deep learning, computer vision, and NLP. Leveraging 5 years of analytical expertise from an accounting career, skilled in deploying AI solutions and improving model performance using TensorFlow, PyTorch, and scikit-learn framework.

Work Experience

Accountant

New Taiba Pharmacy, Muscat, Oman

April 2024 – Present

- Performed **physical stocktaking** to maintain up-to-date stock records.
- Conducted **purchase order checking** to ensure proper financial documentation and record keeping.

Accountant

Blueberrys India, Kerala, India

May 2022 – May 2023

- Conducted **E-commerce sales analysis**, optimizing reporting processes for financial insights.
- Created **data visualizations** to communicate key financial insights.

Accountant

Popular Mega Motors Pvt Ltd, Kerala, India

Jul 2019 – Aug 2020

- Managed **invoicing** and **expense booking**, ensuring timely and accurate processing.
- Assisted year end closing process.

Accountant

Hayath Hospital, Kerala, India

May 2017 – May 2019

- Managed **income and expense booking**, maintaining accurate records for hospital operations.
- Supported financial decision-making through precise record-keeping and financial reporting.

Education

MBA in Human Resource Management

Bharathiar University

January 2021

B.Com in Finance

University of Calicut

April 2016

Skills

- **Machine Learning & AI:** TensorFlow, PyTorch, scikit-learn, Langchain
- **Deep Learning:** CNN, RNN, LSTM, Object Detection
- **Computer Vision:** YOLO, OpenCV
- **NLP:** NLTK, spaCy, Fastext, Transformers (Hugging Face), Openai
- **Data Analysis & Visualization:** Power BI, Tableau
- **Version Control & Deployment:** Git, DVC, MLflow, Docker, AWS, EC2, ECR
- **Programming Languages:** Python, SQL

Projects

CNN Classifier (Image Classification)

- Developed a CNN model for image classification and deployed it on AWS EC2 with CI/CD pipelines for automated deployment.

Sentiment Analysis using RNN

- Built an RNN model for sentiment analysis, using tokenization and word embeddings for accurate predictions.

Customer Segmentation

- Applied K-Means clustering and the elbow method to segment customers based on purchasing behavior.

Fraud Detection (Experiment)

- Detected fraudulent transactions using IQR for anomaly detection and DBSCAN for clustering outliers.

Car Count Detection using YOLOv8

- Developed a YOLOv8-based object detection system to count cars in road camera video footage using OpenCV.

House Price Prediction (Regression)

- Built and deployed a linear regression model to predict house prices in a Dockerized environment.

Stock Price Prediction using ARIMA and LSTM (Microsoft)

- Forecasted stock prices using ARIMA for time series and enhanced accuracy with LSTM for Microsoft stock data.

Fashion Recommendation System

- Built a fashion recommendation system using ResNet50 for feature extraction and nearest neighbor for similarity search.