**AKHIL P M**  
**Machine Learning Engineer**  
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### ****PROFESSIONAL SUMMARY****

Aspiring Machine Learning Engineer with hands-on experience in developing and deploying AI/ML solutions. Skilled in deep learning, computer vision, and NLP, with expertise in TensorFlow, PyTorch, and Scikit-learn. Proficient in building scalable ML models and deploying them using AWS, Docker, and MLflow. Strong analytical background with a business-oriented mindset, transitioning from finance to AI-driven problem-solving.

### ****TECHNICAL SKILLS****

* **Machine Learning:** Scikit-learn, XGBoost
* **Deep Learning:** TensorFlow, PyTorch,
* **Generative AI:** Langchain, Transformers (Hugging Face)
* **Computer Vision:** Object Detection, Image Processing, OpenCV, Feature Extraction, Image Classification
* **Natural Language Processing (NLP):** NLTK, spaCy, Text Preprocessing,
* **Data Analysis & Visualization:** Power BI, Tableau, Pandas, Matplotlib, Seaborn
* **Version Control & Deployment:** Git, Docker, MLflow, DVC, AWS
* **Programming Languages:** Python, SQL

### ****PROJECTS****

#### [CNN Classifier (Image Classification)](https://github.com/Akhilpm156/Brain-Cancer-Classification-using-MLflow-DVC)

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

#### [Sentiment Analysis using RNN](https://github.com/Akhilpm156/Python_Projects/blob/main/NLP/IMDB%20Movie%20Review%20Sentiment%20Analysis%20RNN.ipynb)

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

#### [Customer Segmentation](https://github.com/Akhilpm156/Python_Projects/tree/main/K-means%20Customer%20Segmentation)

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

#### [Fraud Detection (Experiment)](https://www.kaggle.com/code/akhilpm1996/fraud-transaction-analysis)

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

#### [Car Count Detection using YOLOv8](https://github.com/Akhilpm156/Python_Projects/tree/main/Object%20Detection%20car%20count%20project)

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

#### [Stock Price Prediction using ARIMA and LSTM (Microsoft)](https://www.kaggle.com/code/akhilpm1996/time-series-arima-and-sarimax-models)

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

#### [Fashion Recommendation System](https://github.com/Akhilpm156/Fashion_Product_Recommendation_System)

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

### ****WORK EXPERIENCE****

#### **Accountant | New Taiba Pharmacy, Muscat, Oman | Apr 2024 – Present**

* Analyzed financial records to improve business operations and reduce discrepancies.
* Performed stock audits and optimized purchase order processing for financial accuracy.

#### **Accountant | Blueberrys India, Kerala, India | May 2022 – May 2023**

* Conducted data-driven financial analysis to optimize online sales strategies.
* Designed and implemented visual dashboards for revenue and trend analysis.

#### **Accountant | Popular Mega Motors Pvt Ltd, Kerala, India | Jul 2019 – Aug 2020**

* Managed accounts and optimized financial workflows using automated reporting tools.
* Assisted in financial closing and ledger reconciliation.

#### **Accountant |Hayath Hospital, Kerala, India** | May 2017 – May 2019

* Oversaw financial operations, ensuring accuracy in financial statements and transactions.
* Conducted financial assessments to support data-driven decision-making.

### ****EDUCATION****

**MBA in Human Resource Management**  
Bharathiar University | January 2021

**B.Com in Finance**  
University of Calicut | April 2016