Your resume

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Github https://github.com/Aftabmallick

Portfolio https://aftabmallick.github.io/ml_portfolio/

Experienced ML/DL Engineer skilled in training and developing advanced Machine Learning and NLP models to deliver impactful solutions for diverse projects. Proficient in TensorFlow, Machine Learning, Deep Learning, Computer Vision, and NLP. EDUCATION B.Tech In Computer Science and Engineering(Data Science) MCKV Instuitute of Engineering Sep 2020 - Jun 2024 GPA: 8.96 Coursework: Machine Learning Techniques: Supervised Learning (Regression, Classification), Unsupervised Learning (Clustering, Dimensionality Reduction), Deep Learning (CNN, RNN). Other Areas: Natural Language Processing (NLP), Computer Vision, Reinforcement Learning, and Time Series Analysis. Tools & Frameworks: Apache Spark, TensorFlow, PyTorch, Keras, Scikit-learn, Jupyter Notebook, AWS SageMaker, Google Cloud AI Platform, Microsoft Azure Machine Learning. Data Science Skills: Data Cleaning, Feature Engineering, Data Wrangling, Data Visualization, Data Mining. SKILLS Programming Languages: Python, Java, C ,Javascript Python Libraries: Pytorch, Tensorflow/Keras, Scikit-learn, Numpy, Pandas, Matplotlib, Seaborn, Langchain, NLTK, Spacy Deep Learning: Multi-layered Perceptrons/Neural Networks, Computer Vision(OpenCV, CNNs, Image Similarity, Image Classification, Object Detection, Siamese Networks, Generative Models & GANs), Natural Language Processing: Text Representation, Language Modeling, RNNs, LSTM, NER, Attention, Transformers, BERT Supervised Machine Learning: Classification & Regression, Decision Trees, Random Forest, GBDT, XGBoost, Time Series Unsupervised Machine Learning: K-Means, DBSCAN, GMMs, Anomaly Detection, Recommender Systems MLOps : MLflow, Flask, FastApi, Dockers, AWS PROJECTS KIDNEY DISEASE CLASSIFICATION WITH CICD ON AWS Apr 2024 - May 2024 Utilized Kaggle's kidney image dataset to train a VGG16 CNN model, employing OpenCV for image processing. Employed MLflow to track all ML experiments conducted during hyperparameter tuning and selected the best parameters . Implemented DVC for creating a machine learning pipeline, streamlining data ingestion, preprocessing and model training. Developed a Flask server for predictions and implemented CI/CD for continuous integration and deployment on AWS EC2. RAG BASED QUESTION ANSWERING SYSTEM Created a RAG chain using OpenAI GPT 3.5 turbo model and langchain framework. Converted PDF / Website data in text format, then utilized OpenAI text embeddings to convert the text into vectors. Uploaded the vectors to a cloud database called Pinecone, enabling easy access from any location. Retrieve answers for user questions using cosine similarity. End to End Bengaluru House Price Prediction Model Apr 2024 - Apr 2024 Mar 2024 - Mar 2024 Developed a machine learning model using Python to predict house prices in Bengaluru, India. Utilized various algorithms (Linear Regression, Lasso Regression, Decision Tree) through GridSearchCV for optimal model selection. Achieved an accuracy score of 89% demonstrating model effectiveness. Designed and implemented the web application using Flask

and HTML/CSS/JavaScript for precise price predictions. CHATBOT FOR FOOD DELIVERY APPLICATION Developed a Dialogflow-powered food delivery chatbot, potentially increasing user engagement by 30%. Implemented custom entities within Dialogflow, achieving 60% accuracy in food item recognition. Integrated FastAPI backend, reducing order processing time by 80%. Utilized MySQL database for efficient order data, tracking, and menu management. WORK EXPERIENCE Mar 2024 - Mar 2024 Business and Data Analytics Intern Ybi Foundation Jul 2023 - Aug 2023 Remote Engineered Artificial Neural Network (ANN) models achieving an average accuracy of 90% in predicting telecom customer churn, resulting in a significant reduction in customer attrition rate and substantial revenue preservation. Implemented artificial neural network solutions for banking and telecom churn forecasting, achieving a 15% increase in accuracy compared to traditional methods and enabling prompt customer retention actions. Analyzed financial news sentiment using Random Forest and NLP techniques, leading to a 15% increase in the accuracy of market trend predictions and providing actionable insights for investment decisions.

Your projects

- **End-to-End Kidney Disease Classification with MLflow and DVC** (GitHub Link: https://github.com/Aftabmallick/End-to-End-Kidney-Disease-Classification-With-MLFLOW-and-DVC.git)
- **Bengaluru House Price Prediction** (GitHub Link: https://github.com/Aftabmallick/end_to_end_bengaluru_house_price_prediction.git)
- **Chatbot for Food Delivery App using Dialogflow** (GitHub Link: https://github.com/Aftabmallick/chatbot-for-food_delivery-app-using-dialogflow.git)
- **Brazilian E-Commerce Customer Satisfaction MLOps** (GitHub Link: [invalid URL removed])
- **Credit Card Financial Dashboard** (GitHub Link: https://github.com/Aftabmallick/Credit_Card_Financial_Dashboard.git)
- **Chat With Website Data** (GitHub Link: https://github.com/Aftabmallick/chat-with-website-llm.git)

Education

- B.Tech in Computer Science and Engineering (Data Science) - MCKV Institute of Engineering (Sep 2020 - Jun 2024) - GPA: 8.96

Achievements

- Finalist, Smart India Hackathon 2022 (SIH'22)
- HackerRank Certifications: Python (3 stars), Java (4 stars), C (3 stars)

Relocation

Open to relocation (except Gujrat)

Full Resume:
https://github.com/Aftabmallick/ml_portfolio/blob/main/resume/Aftab_Mallick_AIML.pdf