



Danyal Alam

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SKILLS


Languages — Python, SQL, HTML

Frameworks — Tensorflow/Keras, PyTorch, Pandas, NumPy, NLTK

MLOps — Git, Docker, MLflow, DVC, BentoML, CI/CD pipelines, GitHub Actions, RESTful APIs

Cloud Technologies & Databases — Microsoft Azure, AWS | MySQL, MongoDB

PROJECTS

Production Grade Machine Learning Project: | MongoDB,AWS,Docker,Git,CI/CD,FastApi 

Visa Approval Prediction:

- **End-to-End Pipeline:** Built a full machine learning pipeline from data ingestion (via MongoDB) to cloud deployment using Docker and AWS services (EC2, S3, ECR).
- **Model Management:** Trained multiple models, evaluated them using Evidently AI for data drift detection, and pushed the best model to S3 for production.
- **CI/CD Integration:** Implemented automated CI/CD workflows with GitHub Actions and Dockerized FastApi application for seamless deployment on AWS, ensuring scalability and reliability.

End TO End Chest Cancer Classification with Mlops(DL): | CNN,Azure,CI/CD,Docker,Git,Flask 

- **Developed An End-to-End Deep Learning Pipeline :** Designed and implemented a modular pipeline for chest cancer detection using CNN, ensuring scalable and maintainable code with enhanced reproducibility.
- **MLOps Integration for Automated Workflow :** Leveraged MLflow and DVC for experiment tracking and version control, and utilized Azure CI/CD pipelines for automated deployment.
- **Model Deployment with Docker and Flask :** Deployed the deep learning model in a Dockerized Flask application, optimizing it for real-world usage and making it accessible via REST API, ensuring rapid and reliable inference.

Transformer From Scratch In PyTorch: | PyTorch,Python,NLP 

- **Architecture:** Implemented the full transformer architecture, including multi-head attention and feed-forward layers, using PyTorch.
- **Optimization:** Optimized model performance through careful hyperparameter tuning and gradient clipping techniques.
- **Performance:** Achieved comparable results to pre-trained models on NLP tasks such as machine translation or text classification.

EDUCATION


University Of Engineering And Technology Peshawar

• *Bachelors of Science - Electrical Communication Engineering*
GPA 3.0/4.0

Sep 2020 – Jul 2024
Peshawar, Pakistan

EXPERIENCE


Machine Learning Intern

Digital Empowerment Pakistan 

Aug 2024 – Sep 2024
virtual

- Developed models using scikit-learn for classification and regression tasks. Utilized pandas for data manipulation and Matplotlib for visualization.
- Applied TF-IDF and Bag-of-Words for feature extraction. Implemented text preprocessing pipelines including tokenization, stemming, and stop word removal using NLTK and spaCy.
- Implemented CI/CD pipelines for ML models using GitHub Actions. Containerized applications with Docker and deployed on AWS/Azure. Monitored model performance and data drift using MLflow.

CERTIFICATES

Complete Machine Learning,NLP Bootcamp MLOPS & Deployment(Udemy):  | Learned key concepts in ML, NLP, and advanced topics like deep learning and transformers. Worked on real-world applications using TensorFlow, PyTorch, and scikit-learn. Gained experience in MLOps for model deployment and optimization, focusing on practical workflows and automation.