Usama Arif

Machine Learning Engineer
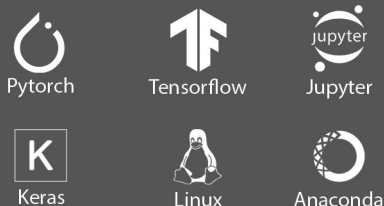
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- github.com/UsamaKenway
- huggingface.co/usamakenway
- https://www.researchgate.net/-

SKILLS

Machine Learning

NLP, LLM, CV

Python, SQL

Data Analysis, ETL

AWS Services, Docker, Git

Fast API, Django REST

TOOLS

- Pytorch
- Tensorflow
- Jupyter
- Keras
- Linux
- Anaconda

HOBBIES

- Designing
- Technology
- Science
- Video games
- Technical Analysis
- Learning

Professional Summary

Experienced ML Engineer with the skillset of data manipulation & end to end ML pipeline. With profound understanding of classification, regression and NLP problems while staying current with the latest tools and technologies.

EXPERIENCES

Machine Learning Engineer (Remote)   FEB-2022-On Going
TecShield

- Developed end-to-end machine learning pipelines for structured datasets of various clients, including data cleaning, EDA, feature engineering, and merging with external datasets such as natural and social events to identify cofounding variables.
- Solve Demand sensing & supply chain problems through Classification & Regression using gradient boosters and create documentation of results with different combinations.
- Created Django and Fast API apps and integrated MLflow to predict and train models through API requests and upload results and models on Amazon S3 bucket.
- Developed a data ingestion app for transforming data from excel or any format to JSON in specified json skeleton format.
- Created LLM chatbot that places orders and deals with customer automatially by calling methods
- Currently leading a chatbot project that will be trained on a US city's data about, locations, social life, websites, history. Gathered data and converted it into LLAMA dataset format (instructions, input, output) working on finetuning on PEFT's LORA adapter model for 13b LLAMA model.
- Optimized the flow for Medifast, Inc. on Dataiku. Recipes take 10-15x less time now.

Odoo Python   DEC 2021-FEB 2022
KK Networks

Worked in Odoo development, an Enterprise resource planning based framework where I completed tasks of inventory management, order management, and creating reports. Technical Skills Used: Python, XML, CSS, Postgres SQL

Data Science Training   JUN 2021-SEP 2021
Programmers Force

- Developed a small KYC program using TF that randomly asks for a hand gesture and verifies it.
- Cleaned, augmented and trained dataset for YOLO & MRCNN.
- Learnt ML Algorithms: kNN, K-Means, Naive Bayes, SVM & etc
- Learnt CNN, Bash, Numpy & Pandas and Practiced Python

EDUCATION

BS COMPUTER SCIENCE   NOV 2016-MAY 2021
SUPERIOR UNIVERSITY

ICS: PHY, MATHS, COMP   SEP 2014-MAY 2016
Punjab Group Of Colleges

GCE O Levels: PHY, MATHS, BIO, CHEM   SEP 2009-MAY 2014
RILLS Kamoke

ACCOMPLISHMENTS

NASA SPACE APPS CHALLENGE 2019
WINNER

Regional Winner & Global Nominee for presenting a solid plan about solving issue of Internet on the Ocean.

- spaceappschallenge.org
- Linkedin (must login)

SUPERIOR ENTREPRENEURIAL EXPO 2020
RUNNER UP

Our Business Idea of E-Cattle B2B App/Web 'Maveshi Mandi' stood runner up with an award prize of Rs.50k

- Linkedin (must login)

PROJECTS & ACTIVITIES

FINAL YEAR PROJECT

Developed 'NuraStyle', a Style Transfer image filtering android application using vgg-19 converted to TensorFlow lite protocol buffers . That resolved the issue of relying on the internet as well as providing an option to pick a style of their own choice by processing it on device.   github.com/..

Stable Diffusion

Finetuned stablediffusion v1.5 on my face & hubble images with multiple combinations on number of instance images, UNET steps and text encoder steps to find out sweetspot for realistic looking images without producing artifacts.

huggingface.co/..

Prompt Generator

GPT Neo-125m finetuned on 1 million examples on poloclub/diffusiondb dataset for generating prompt for txt to img generative model 'stable diffusion.

huggingface.co/..