AFNAN QASIM

Machine Learning Engineer|NLP

🖥 Portolio

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📍 Lahore, Punjab

EDUCATION

AMAL Fellowship
Stanford University
April 2023- June 2023

Bs Computational Physics
University of the Punjab , Lahore
2019 - 2023

Fsc(pre-engineerning)
Govt. Postgraduate college of science
2017 –2019

TECHNICAL SKILLS

- Microsoft Excel
- Machine Learning
- MySQL
- CSS
- C++
- PYTHON
- NLP
- Tensorflow

WORK EXPERIENCE

Junior ML Engineer   2023 - Present
Kyaas Solutionsl Lahore

- Finding best models and fine tuning them from hugging face according to the project requirements
- Demonstrate proficiency in Python, utilizing it for API development, Flask, and Multi-Processing tasks.
- Leverage my familiarity with deep learning frameworks, including TensorFlow, Keras, and PyTorch, to design and implement ML algorithms
- Apply my expertise to develop, train, and optimize deep learning models specifically for computer vision tasks.
- Embrace new challenges as a quick learner and possess additional knowledge in Kubernetes and Docker, enhancing my capabilities.
- Collaborate seamlessly with the team to integrate ML models into production systems, ensuring their efficiency.
- Skillfully troubleshoot and fine-tune existing models to enhance their performance.
- Demonstrate proficiency in Natural Language Processing (NLP), particularly with transformers, BERT, Roberta, NER models, and various NLP libraries like NLTK, spaCy, FastText, and Transformers.

Junior ML Engineer   2022 - 2023
Creative sol

- Support data collection, cleaning, and preprocessing tasks.
- Collaborate with senior ML engineers on feature engineering and model development.
- Assist in model testing, evaluation, and results documentation.
- Actively learn and expand ML knowledge through research and hands-on tasks.
- Maintain data pipelines, follow coding standards, and contribute to team meetings with enthusiasm.

PROJECTS

Chatbot   2023
LINK

- Successfully implemented a chatbot using Google Flan-T5 transformer.
- Preprocessed the first text before calling the Hugging Face embedding.
- Created a knowledge base using the preprocessed documents and embeddings.
- Deployed the knowledge base using Streamlit after saving it in .pkl
- Utilized the model and knowledge base to predict answers for user queries.

- Keras
- Transformers
- Time Series Analysis
- Image Processing
- Clustering Techniques
- Graphical Interpretation of Data
- Deep learning
- Model Deployment
- AWS (Amazon Web Services)
- Fine-tuning
- Transfer Learning
- Gan
- LLm's

LANGUAGES

- English
- Urdu

SOFT SKILLS

- Communication
- Problem-solving
- Teamwork
- Collaboration
- Critical Thinking
- Analytical Mindset
- Problem-solving
- Conflict Resolution
- Creativity
- Leadership

NLP-Emotion Classifier   2023
LINK

- Successfully preprocessed text data for analysis.
- Utilized transformer models to categorize the text into five categories.
- Implemented emotion detection to identify feelings like happy or sad based on the text.
- Deployed the project as a web app using Streamlit.
- Integrated a MySQL database to store both the text inputs and the corresponding responses.

Text-Generation   2022
LINK

- Successfully designed a text generation web app that generates stories based on user input.
- Utilized transformer models and natural language processing techniques for dynamic story creation.
- The web app continues the narrative from the provided prompt, crafting captivating and imaginative stories. Interactive interface allows users to explore different storylines and witness real-time story development.
- Deployed on Streamlit, offering a seamless and user-friendly experience accessible from web browsers.
- Provides a platform for users to indulge in storytelling, spark inspiration, and unlock their creativity.

C++ snake game code   2022
LINK

- Successfully developed a classic Snake Game using C++ programming language and a Graphics Library.
- Created a simple, user-friendly interface for a smooth gameplay experience.
- Implemented a maze-based challenge where players navigate a snake while collecting food to grow longer
- Integrated obstacle avoidance mechanics to add complexity to the game
- Included several levels with increasing difficulty to provide a fun and challenging experience for all players.

Career-Prediction   2021
LINK

- Successfully obtained semi-supervised data comprising 6 thousand rows, with 50 labeled rows.
- Cleaned the data and applied feature engineering techniques for further analysis.
- Conducted Exploratory Data Analysis (EDA) to gain insights and understand the data distribution.
- Employed hierarchical, DBSCAN, and K-means clustering models for unsupervised learning.
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- Deployed the project on Streamlit, enabling users to input numeric values for 15 features.
- Utilized the K-means model to predict the user's most suitable career based on the provided inputs.

COURSES

Generative AI with Large Language Models   2022
coursera.org

1. Explore generative AI with a focus on LLM-based lifecycles.
2. Learn key concepts like transformer architecture and fine-tuning.
3. Gain insights into challenges and real-world applications.
4. Recommended: prior Python coding and basic machine learning knowledge.

Python for Data Science and Machine Learning Bootcamp 2022

Udemy

1. Completed a comprehensive Data Science course with expertise in Python programming, data analysis, and visualization.
2. Proficient in key data manipulation and visualization libraries, including NumPy, pandas, matplotlib, seaborn, and plotly.
3. Skilled in machine learning techniques, such as Linear Regression, NLP, Neural Nets, and more.

ARTIFICIAL INTELLIGENCE (6 MONTH COURSE) 2021

Electrical Engineering department,Univerisity of the Punjab

This 6-month Diploma program in Artificial Intelligence (AI) provides a comprehensive education in the field of AI, including both theory and practical applications. The program covers key topics such as machine learning, computer vision, natural language processing, and deep learning, among others. Throughout the program, students will learn about the latest advancements in AI and how to apply these technologies to solve real-world problems. The program will feature hands-on projects and exercises that allow students to gain hands-on experience with AI tools and techniques.

Microsoft Certified: Azure AI Fundamentals 2021

Microsoft

Earners of the Azure AI Fundamentals certification have demonstrated foundational knowledge of machine learning (ML) and artificial intelligence (AI) concepts and related Microsoft Azure services.

HCIA-Big Data 2021

huawei

This course is applicable to HCIA - Big Data V3.0. It covers Big Data Development Trend and Kunpeng Big Data Solution，Technical Principles and architectures of common and important big data components, including HDFS, Hive, HBase, Flume, Spark, Flink, Elasticsearch and Redis，and Huawei Big Data Solution.

Programming in C++: A Hands-on Introduction Specialization 2022

Coursera.org

This specialization is intended for people without programming experience who seek to develop C++ programming skills and learn about the underlying computer science concepts that will allow them to pick up other programming languages quickly. In these four courses, you will cover everything from fundamentals to objectoriented design. These topics will help prepare you to write anything from small programs to automate repetitive tasks to larger applications, giving you enough understanding of C++ to tackle more specialized topics such as Data Science and Artificial Intelligence.