AFNAN QASIM

Machine Learning Engineer|**NLP**

CONTACT ME

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Lahore, Punjab

EDUCATION

AMAL Fellowship
Stanford University
April 2023- June 2023

Bs Computational Physics
University of the Punjab , Lahore
2020 - Present

Fsc(pre-engineerning)
Govt. Postgraduate college of science
2018 –2020

TECHNICAL SKILLS

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

WORK EXPERIENCE

Junior ML Engineer — 2023 - Present

Kyaas Solutionsl Lahore

- Assisting in data collection, data cleaning, and data preprocessing tasks
- Supporting feature engineering efforts under the guidance of seniors ML engineers.
- Assisting in the development and implementation of machine learning models, following established guidelines and best practices.
- Collaborating with the ML team to conduct model testing and evaluation.
- Assisting in documenting processes, code, and experiment results.
- Participating in team meetings and knowledge-sharing sessions to learn from experienced ML professionals.
- Assisting in the analysis and interpretation of ML model outputs and results.
- Supporting the team in maintaining data pipelines and workflows. Conducting research on ML techniques, algorithms, and frameworks to expand knowledge.
- Actively learning and acquiring new skills related to machine learning. Assisting with general tasks and ad-hoc assignments as required by the ML team.
- Following coding standards, version control practices, and maintaining proper documentation.
- Demonstrating a proactive and enthusiastic attitude towards learning and contributing to ML projects.

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.

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.

- 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

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.
- Employed hierarchical, DBSCAN, and K-means clustering models for unsupervised learning.
- 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 2023

coursera.org

the fundamentals of generative AI and its real-world applications. Learners will gain a deep understanding of LLM-based generative AI lifecycles, from data gathering to deployment. The course covers transformer architecture, fine-tuning, and optimization using empirical scaling laws. State-of-the-art training, tuning, inference, and deployment methods are taught to maximize model performance within project constraints. Learners will explore challenges and opportunities in generative AI through industry stories. Prior Python coding experience and basic knowledge of machine learning are recommended. The course complements learners' understanding of LLMs and empowers them to leverage this cutting-edge technology effectively.

Python for Data Science and Machine Learning Bootcamp 2023

Udemy

Completed a comprehensive Data Science course focusing on Python programming, data analysis, visualization, and machine learning algorithms. Proficient in NumPy, pandas, matplotlib, seaborn, and plotly for data manipulation and visualization. Experienced in web scraping and connecting Python to SQL databases. Gained knowledge in various machine learning techniques, including Linear Regression, K Nearest Neighbors, Clustering, Decision Trees, NLP, Neural Nets, and SVM. Equipped with valuable skills to tackle real-world data challenges. Enthusiastic about pursuing a rewarding career as a Data Scientist.

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 2022

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.