Hassaan Ahmad

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TECHNOLOGIES

- Tensorflow
- Pytorch
- Scipy
- Numpy
- Pandas
- OpenCV
- NLTK
- Scikit-learn
- Boto3
- Beautiful Soup
- Streamlit
- Django
- Fast API
- Hugging face
- Openai

EXPERIENCE

DEEP LEARNING ENGINEER (CURRENT ROLE)   QLU.ai

- Used state of the art ResNet-152 imagenet pretrained for ethnicity classification of profile images.
- Designed and developed highly performing semantic search solution for extracting relevant information from larger corpora of text.
- Designed and developed a profile ranking mechanism of executive profiles using natural language processing and statistical methods.
- Overseeing deployment of existing as well as newly incorporated AI systems on both OnPrem and cloud.
- Analyzing systems using evaluation metrics such as AUC, Precision and Recall for better results.

SOFTWARE DEVELOPER   MLsoft.ai

- Leveraged cloud technologies to forecast and optimize cloud costs utilizing system level metrics.
- Designed and developed scalable backend systems using microservices architectures.
- Leveraged Large language models for implementing RAG systems for user specific knowledge bases and requirements.
- Designed and developed intricate data models for storage and accession of complex data via concurrent API calls.
- Deployed well-orchestrated solutions optimized for onPrem and cloud services.
- Collaborative development of global outage monitoring system for banking services.

PROJECTS

- Real estate proximity rating using central limit theorem and evaluating results by hypothesis testing.
- Developed a GUI application using streamlit for cloud cost optimization with interactive visualizations.
- Leveraged large language models from hugging face for acquiring dense embeddings for text representation for implementing semantic search.
- Built in-house solution for structuring organizational charts of fortune five hundreds using natural language processing.
- Gaussian kernel regression modelling for estimating company growth with venture capital funds.
- Clustering text data with semantic similarity for sentiment analysis.

TECHNICAL SKILLS

- Python, C++, JAVA, Shell Script
- Docker, Kubernetes
- Calculus, Linear Algebra, Statistics and Probability.
- MySQL, MariaDB, Postgres, Elasticsearch, MongoDB.
- AWS, Auzre and GCP.
- System design and microservices architecture.

EDUCATION

- **BS Computer Science**
  Comsats University Islamabad
  2022

- **MS Data Science**
  Fast Islamabad
  2024

CERTIFICATIONS

- Linear Algebra for Machine learning
- Calculus for Machine learning
- AWS Cloud technical essentials
- TensorFlow developer professional certificate
- Data visualization with python