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Education

National University of Sciences and Technology (NUST)

Islamabad, Pakistan

Bachelor of Science in Computer Science

2020 – 2024

Relevant Coursework

- Artificial Intelligence
- Data Structures
- Database Management
- Web Engineering
- Deep Learning
- Operating System
- Object Oriented Programming
- Computer Architecture

Technical Skills

Languages: Python, C/C++

Frameworks: Pytorch, TensorFlow, FastAPI

Developer Tools: Git, AWS, Colab, VS Code, Kaggle, Visual Studio, Jupyter, PyCharm,

Libraries: Hugging Face, NumPy, Matplotlib, Pandas, Scikit-Learn, OpenCV, SciPy

Projects

Renta: AI Based Recommendation System | *Python, Pytorch, FastAPI, AWS, Github* Dec 2023 – May 2024

- Trained a recommendation model using neural collaborative filtering in PyTorch on a large rental house dataset.
- Implemented continuous integration pipelines for seamless execution of the model.
- Deployed the model on AWS EC2 using FastAPI, ensuring reliable and scalable performance.
- Evaluated the model on metrics like Precision at K (**85%**) and Recall at K (**88%**), ensuring high accuracy in recommendations.
- Used GitHub for version control, enabling efficient collaboration and code management.

Prompt-Driven Story Generation with Transformers | *Python, Hugging Face, Pytorch, Colab* Feb 2024

- Trained on an extensive dataset featuring **300,000** prompts and their corresponding stories, this project focuses on prompt-driven story generation.
- Employing a pre-trained GPT-2 model, the system excels in the intricate art of crafting narratives based on given prompts.
- Validating its proficiency, the model achieves a perplexity score of **50**, indicating a keen understanding of language context, and successfully generates compelling and coherent stories.

Seq2Seq Model: English to Urdu Translator | *Python, Pytorch, LSTMs, Colab* Nov 2023

- It is trained on a large dataset featuring **24,525** sentences per file, this Seq2Seq model is meticulously designed for English to Urdu translation.
- Leveraging Long Short-Term Memory (LSTM) networks enhanced with an attention mechanism, the model excels in the nuanced task of language translation.
- Demonstrating its effectiveness, the translator achieves a commendable BLEU score of **74.16%**, attesting to its accuracy and fidelity in preserving the semantic nuances during the English-to-Urdu translation process.

Deep Multi-Task Neural Network for Classification And Regression | *Python, Pytorch* Nov 2023

- It is trained on a large-scale dataset containing **20,000** face images.
- It excels in analyzing a given image, providing simultaneous classification of ethnicity and gender, while also delivering precise age predictions.
- Boast an impressive **83.4%** accuracy in gender classification, a noteworthy **72.4%** accuracy in ethnicity classification, and the ability to predict age with a Root Mean Square Error (RMSE) of **12.9**.

Deep Convolutional Neural Network for Facial Classification | *Python, Pytorch, Kaggle* Oct 2023

- Trained on an extensive dataset comprising **140,000** face images distributed across a diverse set of **7,000** classes
- The network demonstrates exceptional proficiency in image analysis, specifically tailored for facial classification tasks.
- It achieves an impressive **65%** accuracy in the challenging domain of facial classification, underscoring its effectiveness in discerning intricate details within diverse facial features
- The project won the **3rd** prize on Kaggle Competitions.