

Qazi Saim

Artificial Intelligence Engineer

Innovative Artificial Intelligence Engineer with hands on in application design, development Highly motivated in writing codes and algorithms as well building complex neural network through various programming language. Possess an unbridled passion for Artificial intelligence with comprehensive knowledge of machine learning concepts and other related technologies. Unmatched ability to identify, understand and translate program requirement into sustainable advance solution through Python and other programs for continuous improvement of AI technologies.

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PROJECTS

English to French Language Translator

- Built English-to-French translation model using Encoder-Decoder with Bahdanau Attention in TensorFlow.
- Designed custom **Bahdanau Attention** layer for context-aware sequence processing.
- Pre-processed 15,000 sentence pairs with Keras Tokenizer and sequence padding.
- Implemented **LSTM-based Encoder and Decoder** with embedding and dense layers.
- Trained model with Adam optimizer, early stopping, and sparse **categorical cross-entropy** loss.
- Evaluated performance using **BLEU** score on 100 samples for translation quality.
- Visualized training and validation loss/accuracy with Matplotlib for model analysis.

Text Generator

- Built Transformer model Developed a language model using TensorFlow/Keras, trained on Wikitext-2 for text generation.
- Implemented **self-attention** Created multi-head attention with scaled dot-product to capture text relationships.
- Designed custom layers: Built EncoderLayer and **MultiHeadAttention** with 256 dimensions, 8 heads, 1024-unit FFN.
- **Preprocessed data:** Tokenized text, created sequences with 10,000+ vocabulary, padded for uniform inputs.
- Optimized training: Used Adam optimizer, crossentropy loss, early stopping to improve model performance.
- Evaluated and generated text: Tested on held-out set, implemented function for **coherent text continuation**.
- Split data: Applied scikit-learn for train/validation/test splits to ensure robust model evaluation.

PDF Summarizer (RAG Application)

- Developed a Retrieval-Augmented Generation project to make PDF or text book interactive.
- Used python and request library to download PDF.
- Extracted the text using PyMuPDF. And cleaned it and calculated metrics like word count.
- Storing it into a pandas Data Frame for further analysis. And split the sentence using spacy.
- **Chunked and embedded** text retrieved relevant pieces for query using similarity score, and formatted a prompt with the context.
- A **language model** run on a GPU generated explanatory answers

AREAS OF EXPERTISE

Machine Learning, Deep Learning, Data Analysis, Artificial Intelligence, Computer Vision

TECHNICAL SKILL

Programming

Python, PostgreSQL

Machine Learning

Linear Regression, Logistic Regression, SVM, Decision Tree, Ensemble Techniques

Deep Learning

ANN, RNN, LSTM, GRU, BRNN, Encoder-Decoder, Transformer, Seq2Seq, Tensorflow, Keras, PyTorch

AI Framework

LangChain, Pydantic-AI, CrewAI, Gemini, Hugging Face

TECHNO-FUNCTIONAL SKILLS

Proactive, Adaptability, Communication, Quick learner, Problem Solver.

TOOLS

Git, GitHub, AWS-Bedrock, Excel, VSCode, ML-Flow, Docker, Colab, Kaggle,

EDUCATION

BSC in Information Technology

Year 2023

CERTIFICATION

Full Stack Data Science (PW Skills)