



Mohammed Shaneeb

Machine Learning Developer

My Contact

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Skills

- Python
- Data Science
- Numpy
- Sklearn
- Tensorflow
- Keras
- Transformers
- NLP
- RNN
- Spacy
- Embedding
- Word2vec
- LLM
- Sentence Transformers
- OpenAI
- PEFT
- QLoRA
- Gemma
- Falcon
- Langchain
- Vector Database
- Chroma DB
- FastAPI
- Version Control
- AWS
- AWS RDS
- OpenAI Embeddings
- Machine Learning
- Deep Learning
- Pandas
- Classification
- Pytorch
- Bert
- Transfer Learning
- Prompt Engineering
- LSTM
- NLTK
- NER
- TF-IDF
- GPT
- Fine-Tuning
- Llama2
- LORA
- Gemini
- Mistral
- Hugging Face
- Llama Index
- PineCone
- FAISS
- Streamlit
- Django
- Flask
- GCP
- MySQL
- Git

About Me

NLP Enthusiast with ML/DL expertise. Fine-Tuned LLM Models, Created Chatbots, Custom LLM Products, NER Systems, Efficient Vector databases and Deployment. Eager to tackle new NLP Challenges.

Personal Projects

Fine-Tuned Llama2 Model

- **Description:** Fine Tuned Llama2 model using QLoRA(Quantized Low-Rank Adaptation)
- **Technologies Used:** Python, Hugging Face Transformers, PEFT(Parameter-Efficient Fine-Tuning), QLoRA, Pytorch, SFT(Supervised fine-tuning)
- **Achievements:** Enhanced efficiency through QLoRA fine-tuning, resulting in significantly faster processing, reduced costs, and improved compute efficiency compared to training from scratch.
- **Github:** https://github.com/mohammedshaneeb-ai/Llama2_Fine-Tuning_QLORA.git
- **HuggingFace:** https://huggingface.co/MohammedShaneeb/Llama2_FineTuning

Virtual Hiring Assistant chatbot

- **Description:** Developed a Hiring assistant for HR. HR will come many resume so HR can ask to shortlist the resumes and ask any questions related to his database
- **Technologies Used:** Python, NER, Spacy, GPT-3.5, Pandas, AI, AWS, Firebase, Django, html, css.
- **Achievements:** Reduced Hiring time for HR
- **Github:** https://github.com/mohammedshaneeb-ai/VIRTUAL_HIRING_ASSISTANT
- **Youtube:** <https://youtu.be/p5dq0c9S9uc>

Conversational Chatbot

- **Description:** Developed a custom conversational chatbot with our own data.
- **Technologies Used:** Python, Langchain, GPT-3.5, Sentence Transformers, Pinecone, Streamlit UI.
- **Achievements:** Increased user satisfaction by using conversational model for their own data.
- **Github:** https://github.com/mohammedshaneeb-ai/Conversational_Chatbot_Langchain_Streamlit

Soft Skills

- Problem solving
- communication
- Curiosity
- Work ethic
- Time Management
- Creativity

Professional Experience

Prototype | Machine Learning Intern 11/2022 – Present

Key responsibilities:

- Gained practical experience in Machine Learning (ML) and Deep Learning (DL).
- Specialized in Natural Language Processing (NLP).
- Executed projects including Named Entity Recognition (NER), fine-tuned Large Language Models (LLMs), worked with open-source LLMs, and developed custom chatbots using LLMs.
- Created a vector database for efficient data storage and retrieval.
- Successfully deployed NLP applications on Amazon Web Services (AWS), demonstrating hands-on cloud computing skills.

Q&A On Website data (API)

- **Description:** Developed Q&A system for website data. Developed as API. User can ask question from the web page he currently viewing.
- **Technologies Used:** Python, Langchain, GPT-3.5, Open AI Embeddings, Faiss, FastAPI, AWS ec2.
- **Achievements:** User can get answer's within seconds without reading full page.
- **Github:** https://github.com/mohammedshaneeb-ai/website_qa_api_langchain
- **Youtube:** <https://youtu.be/KMmZJcDRuDA>

SQL Retrieval , Langchain SQL Agent

- **Description:** Developed Q&A system for SQL Database
- **Technologies Used:** Python, Langchain, GPT-3.5, OpenAI, SQLAgent, MySQL .
- **Achievements:** User can query sql databases with natural language.
- **Github:** https://github.com/mohammedshaneeb-ai/Langchain_SQL_Agent.git

AI Chatbot from Scratch using Pytorch

- **Description:** Developed a custom chatbot using Pytorch and NLTK
- **Technologies Used:** Python, Pytorch, NLTK, Neural Networks, Bag of Words
- **Achievements:** Trained Neural networks from scratch
- **Github:** https://github.com/mohammedshaneeb-ai/AI_Chatbot_using_Pytorch.git
- **Youtube:** <https://youtu.be/btPulWB2T8o>

Chatbot Using LlamaIndex

- **Description:** Developed Chatbot using LlamaIndex and customized
- **Technologies Used:** Python, Langchain, GPT-3.5, Sentence-transformers, ChromaDB
- **Achievements:** quickly find and fetch information from a large collection of documents
- **Github:** <https://github.com/mohammedshaneeb-ai/Llama-index.git>
- **Youtube:** <https://youtu.be/8c8uENCpUp4>

Email Spam Classification

- **Description:** Developed a Classification model to classify message and made streamlit application to interact
- **Technologies Used:** Python, numpy, pandas, sklearn, logistic regression, Streamlit
- **Achievements:** Our logistic regression model, trained on advanced embeddings using Sentence Transformers, efficiently distinguishes spam from legitimate emails.
- **Github:** <https://github.com/mohammedshaneeb-ai/Spam-classification.git>
- **Youtube:** <https://youtu.be/JY8JlzZg-p4>

Breast Cancer Prediction

- **Description:** Developed a breast cancer prediction model
- **Technologies Used:** Python, numpy, pandas, sklearn, logistic regression
- **Achievements:** due to efficient preprocessing I got 97% accuracy
- **Github:** https://github.com/mohammedshaneeb-ai/Breast_Cancer_Prediction_using_Classification.git