ASHAD ABDULLAH

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EDUCATION

FAST National University — *Karachi, Pakistan*
Bachelor of Science in Computer Science — *Sep. 2021 – present*
CGPA: 3.86/4.0

EXTRA-CURRICULAR PROJECTS

Deputy *DevDay (FAST Event) Automation team* | Linkedin Post — *April – June 2023*

- Co-led the development of an interview Chabot that would help fresh graduates and interns with their interview preparations.
- Used the **OpenAI** API as our backend model and connected it with the frontend by creating **FLASK** APIS, used **TextBlob** for **sentiment analysis** for scoring.
- The bot authenticates user, takes interview, generate report regarding the session and email them.

Member *Procom (FAST Event) Automation Team* | LinkedIn Post — Feb. - *March 2023*

- Developed a ChatBot model (ProBot) using **NLTK** and **scikit-learn** to assist participants in competitions and university events for Procom (FAST Event) Automation Team.
- Implemented natural language processing **(NLP)** techniques to improve the Chabot's ability to understand and respond to user queries effectively.

PROJECTS

Stock Clustering: *C++, K-means* | GitHub Link — *April. – May. 2023*

- Built stock clustering model using **K-means** algorithm with a team of 3 members.
- Utilized toy data and implemented multi-threaded programming using **open MP** and **pthreads**. Data scrapped from **Yahoo-fin**. Extracted around 400 features for the model.
- Conducted comparison between sequential and parallel programming speed ups.

Restaurant Recommender: *C++, Decision Trees* |GitHub Link — *Oct. – Dec. 2022*

- Developed decision tree classifier using **ID3** algorithm and entropy measurements for categorical data. Data based on popular restaurants in city
- Selected significant features for each node based on information gain calculation.
- Trained classifier to accurately predict outcomes for categorical data.

Other Projects Machine Learning and Deep Learning Projects, House Price Prediction in streamlit , Titanic Survivor Prediction,Email Spam Detection, Amazer: The maze game, The Space-war game , Sierpinski Triangle, PPT-Automation

OPEN SOURCE CONTRIBUTIONS

Microsoft/STL: *Fixed Issue* #3779, *Documentation* | GitHub Link

- Fixed LWG-3940 issue in STL code and comments.
- Removed unnecessary words in expected_results.txt comment.

Streamlit: Enhancement / Github Link

- Added links to relevant documentation pages for input widgets, dataframes, charts, layout, multipage apps, in Streamlit's README on GitHub.
- Enhanced documentation with linked images for improved understanding and usability.

TOOLS AND LANGUAGES

- **Languages:** Python, C/C++, Flask, JavaScript, HTML, CSS , shell, assembly
- **Tools:** VS, it, Colab, Jupyter, Linux, Notion, Microsoft office
- **Frameworks:** Numpy, Pandas, NLTK, TensorFlow, scikit-learn, OpenCV, TextBlob, PyGame, Seaborn, Matplotlib, Langchains

CERTIFICATES

- Machine Learning Specialization , Supervised & unsupervised Learning algorithms, Neural Networks, Clustering Analysis
- DeepLearning.ai Tensorflow Developer: NLP, Computer Vision, Time Series Prediction and Analysis, CNNs, DNNs, LSTMs
- Generative AI with Large Language Models: Fine Tuning Techniques (PEFT, LoRA), Hyper parameters and prompt tuning