

# ASHAD ABDULLAH

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## EDUCATION

### FAST National University

Bachelor of Science in Computer Science  
CGPA: 3.86/4.0

Karachi, Pakistan  
Sep. 2021 – present

## 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 and unsupervised Learning algorithms, Neural Networks, Clustering Analysis
- [DeepLearning.ai Tensorflow Developer](#): NLP, Computer Vision, Time Series Prediction and Analysis, CNNs, DNNs, LSTMs
- FDSS x Folio3 Data Science Boot Camp ([Linkedln Post](#)), Machine Learning fundamentals, Data analysis, ML in production