Ashad Abdullah

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# **E**ducation

**FAST National University** Karachi, Pakistan

*Bachelor of Science in Computer Science*  *Sep. 2021 – present*

*CGPA: 3.86/4.0*

# **E**xtra-Curricular **P**rojects

| **Deputy** | DevDay (FAST Event) Automation team | [Linkedin Post](https://www.linkedin.com/posts/ashadqureshi1_techeventexcellence-devday23-techinnovation-activity-7072636628233502720-0Kpn?utm_source=share&utm_medium=member_desktop)  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. |
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| **Member** | Procom (FAST Event) Automation Team | [LinkedIn Post](https://www.linkedin.com/feed/update/urn:li:activity:7041017388854587392?utm_source=share&utm_medium=member_desktop) 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. |

# **P**rojects

| **Stock Clustering:**  **Restaurant Recommender:** | C++, K-means | [GitHub Link](https://github.com/Ashad001/Parallel-Programming-k-means-clustering) 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**](https://finance.yahoo.com/). Extracted around 400 features for the model. * Conducted comparison between sequential and parallel programming speed ups.   C++, Decision Trees |[GitHub Link](https://github.com/Ashad001/Restaurant-Recommneder) 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. |
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| **Other Projects** | [Machine Learning and Deep Learning Projects](https://github.com/Ashad001/ML-DL-Projects), [House Price Prediction in streamlit](https://github.com/Ashad001/ML-DL-Projects/tree/main/House_Price_Prediction%20in%20Streamlit) , [Titanic Survivor Prediction](https://github.com/Ashad001/ML-DL-Projects/tree/main/TitanicSurvivor),[Email Spam Detection](https://github.com/Ashad001/ML-DL-Projects/tree/main/EmailSpamChecker), [Amazer: The maze game](https://github.com/Ashad001/SFML-Game-With-Cpp), [The Space-war game](https://github.com/Ashad001/PROCOM-PROJECT) , [Sierpinski Triangle](https://github.com/Ashad001/Sierpinski-Triangle), [PPT-Automation](https://github.com/Ashad001/PPT-Automation---OpenCV) |

# **O**pen **S**ource **C**ontributions

| **Microsoft/STL:**  **Streamlit:** | Fixed Issue [#3779](https://github.com/microsoft/STL/issues/3779), Documentation | [GitHub Link](https://github.com/microsoft/STL/pull/3785)   * Fixed LWG-3940 issue in STL code and comments. * Removed unnecessary words in expected\_results.txt comment.   Enhancement | [Github Link](https://github.com/streamlit/streamlit/pull/6780)   * 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. |
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# **T**ools and **L**anguages

| * **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  **C**ertificates  | * [Machine Learning Specialization](https://www.coursera.org/account/accomplishments/specialization/certificate/EQ9PX55KVFB2) , Supervised & unsupervised Learning algorithms, Neural Networks, Clustering Analysis * [DeepLearning.ai Tensorflow Developer](https://www.coursera.org/account/accomplishments/specialization/certificate/QRH8JXG7JGCG): NLP, Computer Vision, Time Series Prediction and Analysis, CNNs, DNNs, LSTMs * [Generative AI with Large Language Models](https://www.coursera.org/account/accomplishments/certificate/Z3LNQQ6ZGMM6): Fine Tuning Techniques (PEFT, LoRA), Hyper parameters and prompt tuning | | --- | |
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