Ali Raza Khan

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Born 15 April, 2002

EDUCATION

2018 - Present — **Bachelor's degree in Computer Science**

B. Sc (Computer Science), Namal University Mianwali
- Expected Completion Date: May, 2022
- CGPA: 3.45

2016 - 2018 — **Intermediate in Computer Science**

ICS (Intermediate in Computer Science), Superior Group of Colleges, Depalpur Campus
- Grade: A+

PROFESSIONAL EXPERIENCE

Feb 2021 -Present — **Research Assistant**

Research assistant to Dr. Junaid Akhtar in Deep Artificial Intelligence group at Namal.

Sep 2019 -Present — **Teacher Assistant**

Teacher Assistant to Dr. Junaid Akhtar for Artificial Intelligence and Dr. Naeem Ayyaz for Quantitative Computational Reasoning at Namal University.

Oct 2021 — **Internee**

Selected for Internship at The Sparks Foundation (Singapore)

PROJECTS

Intelligent Content Analyzer (Proposal Link)

Final Year Project, for Bachelor's degree, on Sentiment and Logical analysis of replies on a single/specific tweet. Project is divided in two milestones. First milestone is to explore state-of-the-art machine learning and rule-based/lexicon-based systems or techniques for sentiment analysis and highlight their pros and cons. Second milestone is to make a hybrid system for Sentiment and Logical analysis which is explainable regarding its predictions and results. Final product will be a mobile/web application where user can perform live analysis just by pasting link of the tweet

Hotel Booking App (Project Link)

A mobile and web app to manage room bookings. A user can book rooms and manager can manage room booking requests.

Quiz App (Project Link)

An android app to manage different subjects. Students can log in and attempt quizzes of courses they are enrolled in.

Snails Game (Project Link)

A 2D board game with multiplayer (human) and AI Bot as well. Used heuristics with min-max to develop an AI bot.

Template Matching using Genetic Algorithm (Programming)

Developed an algorithm of Genetic Programming based on 'Darwin's Theory of Evolution ' for template matching. This algorithm can locate a target in a group.

Pepper Disease Detection (Project Link)

Implemented two different classifiers to classify between an infected and healthy pepper by picture of its leaves. One of these classifiers is AlexNet and the other one is ArkNet, prepared (designed) by us.

Thinking Aloud Test (UI/UX) (Final Report)

Conducted Thinking Aloud Test on Air University's Website in a group of 4 people. We performed Thinking Aloud in standard environment which is followed by NN-Group (Nelson-Norman) for thinking aloud test.

SKILLS

Languages: Python, Java, JavaScript, C/C++, PHP, HTML, CSS, Prolog, SQL, Dart

Tools/Frameworks: Bootstrap , Streamlit, Spark-NLP, Tensorflow, Flutter, Android, Flask, Django,

Operating Systems: Linux, Microsoft Windows, Android

Databases: MySQL, SQLite, Firebase Database (NoSQL)

Libraries: Keras, OpenAI API, NLTK, Huggingface, Transformers, NumPy, Pandas, OpenCV, PyQt, Matplotlib, SciPy, JQuery, Pillow, OpenGL, TextBlob

ADDITIONAL ACTIVITIES

- President, Namal Open Source Society
- Teacher and Co-head at Education Wing of Namal Society for Social Impact (NSSI)
- Director Operations at Namal Literary Debating Society (LDS)
- Director Media, Graphics and Marketing at Namal Literary Debating Society (LDS)
- Director Graphics at Namal Center of Excellence and Skills Development (CESD)
- Participated in CS50x Puzzle Day
- Volunteer work at Orientation 2019 for new comers at Namal.