Maryam Imran

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Portfolio: https://maryimr.github.io/maryam-imran-portfolio/

EDUCATION

MIDDLE EAST TECHNICAL UNIVERSITY   Northern Cyprus - July 2023
Bachelor of Science - Major in Computer Engineering; Minors in General Management - CGPA: 3.40/4.0; Honors

WORK EXPERIENCE

UTest - Junior Freelance QA Tester   Remote - February 2024 – Present
- Perform Functional, Security, Accessibility and Usability testing on a plethora of diverse softwares.
- Improve software quality by reproducing, reporting and providing evidence for bugs.
- Interact with testers and clients from around the globe to collaborate on testing.

MIDDLE EAST TECHNICAL UNIVERSITY - ML Student Assistant   Northern Cyprus - Oct 2022 – Jun 2023
- Lead lab sessions for the Machine Learning and Artificial Intelligence courses.
- Extensive planning and delivering information related to python, ML and AI algorithms such as A* search etc.
- Helped students decide what algorithms and data structures to use for specific problems as well as how to design them.

MIDDLE EAST TECHNICAL UNIVERSITY - Programming Student Assistant   Northern Cyprus - Oct 2021 – Jun 2022
- Assisted Students with coursework to improve the learning experience and answer queries.
- Mentored and tutored individual students needing additional help, helped lead lab sessions for the ADS courses.
- Helped prepare and deliver assignments in multiple domains such as python programming, machine learning, etc.

AIRELOGICS - Flutter Intern   Ontario, Canada (Remote) - Jul 2022 – Sep 2022
- Redesigned the ER diagram of a charity application project, creating room for additional features and performance increase.
- Designed and implemented the application's delivery module, significantly improving the application's outreach
- Discussed issues with team members to provide resolution and apply best practices.
- Translated customer requirements into written use cases.

SILENTSOL - Android Intern   Islamabad, Pakistan - Jul 2021 – Oct 2021
- Improved US-based Telehealth app's response by implementing live patient-EMT connection through Google Maps API.
- Reinstated ride-sharing application's operations by updating the used libraries and frameworks.
- Resolved system test and validation problems to provide normal program functioning.

PROJECTS

MACHINE LEARNING-BASED PRECANCEROUS CELL DETECTION ALGORITHM
- Research-Based Graduation Project - Algorithms achieved 95% test accuracy
- Python Programming, Supervised Classification Models

MACHINE LEARNING MODEL FOR FIRE-DETECTION UAV
- We designed an ML model using transfer learning to adapt to detecting forest fires autonomously

ENERGY DATA PATTERN RECOGNITION
- Detect energy consumption patterns in relation to renewable energy production in data from a handful of countries including India, US and China. Used clustering algorithms to find out the relationships (if any).

AI BASED SMART TIC-TAC-TOE GAME
- Smart tic-tac-toe bot (Alpha-Beta heuristic based) that a human player can play against. PyGame for visualization.

FULLY CONNECTED FEED FORWARD NN FOR WEATHER CONDITIONS DETECTION
- Designed, trained and tested a fully connected feed forward neural network with the aim of categorising weather images into a set of labels. Multiple variants with varying numbers of hidden layers and neurons.

FEATURE MATHING ALGORITHM
- Designed and tested a feature matching algorithm based on SIFT features of a set of images.

Technical Skills: Data Querying(SQL), Scripting(Python), tools(Pytorch, OpenCV, Matlab), supervised(KNN, DT, SVM) and sunsupervised learning methods(Kmeans, hierarchical clustering association rules), excellent verbal and written communication skills(Urdu, English)