Abdullah Farooq

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EDUCATION

Ghulam Ishaq Khan Institute of Engineering Sciences and Technology
Bachelor of Science in Computer Science   *CGPA 3.20 / 4.00*   *Anticipated 05/2024*

Relevant Courses: Databases, Data Structures & Algorithms, Theory of Automata, Computer Organization & Assembly Language, Software Engineering, Object Oriented Programming, Operating Systems, Computer Architecture, Computer Communications & Networking, Introduction to Artificial Intelligence, Systems Programming, and Structure & Interpretation of Computer Programs (Functional Programming).

PROFESSIONAL EXPERIENCE

AI/ML Project   *Topi, Pakistan*
*Artificial Intelligence Project | **Python, NumPy, TensorFlow, Keras***   *Apr 2023 – May 2023*
- Developed and implemented a SuperResolution model using machine learning techniques that achieved 8 times improvement in image resolution.
- Utilized Python, TensorFlow and Keras to build a convolutional neural network (CNN)-based model.
- Evaluated the model's performance using the mean square error (MSE) function, achieving an MSE score of 0.0029, demonstrating the accuracy of the model's predictions.

Machine Learning   *Topi, Pakistan*
*Artificial Intelligence Project | **Python, Pandas, TensorFlow, Keras***   *Feb 2023 – Apr 2023*
- Created a customized CNN architecture with TensorFlow, integrating convolutional layers, pooling layers, and fully connected layers to enhance feature extraction and classification accuracy.
- Developed and trained a multi-classification model on the CIFAR-10 dataset, consisting of 60,000 32x32 color images, using a convolutional neural network (CNN) architecture.
- Executed comprehensive model performance evaluation resulting in a model accuracy of approximately 88%.

Web Development   *Topi, Pakistan*
*Web Project | **JavaScript, React.js, Node.js, Express.js, MongoDB***   *Jan 2023 – Feb 2023*
- Developed a MERN web-app enabling users to share places with authenticated access, using CRUD functionality for images and location data.
- Implemented secure authentication and authorization protocols to safeguard user data.
- Utilized React.js to create engaging UI and Node.js for server-side operations and MongoDB integration..

Software Development   *Topi, Pakistan*
*Data-Base and Software Eng. Project | **SQL***   *Feb 2022 – April 2022*
- Contributed on the back end development, implementing database design and management to store and retrieve data related to pets, users, and transactions.
- Drafted comprehensive documentation which included functional & non-functional requirements, use case & ER/EER diagrams

Graphic Representation of Nodes   *Topi, Pakistan*
*Data Structures and Algorithms Project | **Linked List, C++***   *Nov 2021 – Dec 2021*
- Executed a project using C++ and SDL2 library that reads data from a .txt file and displays the clustering of a graph in a circular format, along with functionalities.
- Proposed shortest path algorithms, such as Dijkstra's algorithm, to find the distance between two nodes in the graph.

EXTRACURRICULARS

ACM GIKI – *Tech Head*   *Feb 2021 – May 2023*
GIKI Microsoft Students Club – *Member*   *Jan 2022 – Nov 2022*

Licenses & Certificates

Programming with JavaScript – *Meta*   May *2023*
AI For Everyone – *DeepLearning.ai*   *Feb 2023*
Intermediate Python – *DataCamp*   *Jan 2023*

SKILLS

Python, C/C++, SQL, JavaScript,React.js, Node.js, Express.js, MongoDB, Pandas,NumPy, HTML5, CSS, Oracle, AI/ML,TensorFlow, Scheme