Abdullah Zunorain

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EDUCATION

University of Engineering and Technology Peshawar   Sep 2019 – Oct 2023

BS Electrical Engineering (Communication) – **CGPA 3.21/4.0**

WorldQuant University   Nov 2023 – Jan 2024

Applied Data Science Lab Certificate Link

WORK EXPERIENCE

Upwork – *Self-Employed*   Oct 2024 – Present
- Currently working on Data Science & Machine Learning projects.

atomcamp - *Data Science & AI Trainee*   Jan 2024 – Sep 2024
- Worked as a Data Scientist & AI Trainee.

PROJECTS

Agricultural AI Projects (Pea Plant Quality Assessment Using Custom CNN) GitHub Repository
- Developed and trained a customized CNN model for pea plant disease classification using data augmentation and optimized hyperparameters to achieve high accuracy.
- Compared performance with models such as VGG16 and traditional ML classifiers, and analyzed results using confusion matrices and classification reports to assess plant health.

Predicting Heart Disease Using Machine Learning (Github Repository)
- Built a machine learning model to predict heart disease based on health data. Implemented algorithms like K-Nearest Neighbors, Decision Trees, and Random Forest. Evaluated model performance using accuracy, precision, and recall. The project aims to assist in early detection of heart disease.

Brain Tumor Detection Desktop Application (Github Repository)
- Developed a GUI-based brain tumor detection system using Python and Tkinter.
- Utilized pre-trained deep learning models (e.g., CNNs) for tumor detection from MRI images.
- Implemented real-time tumor visualization and region highlighting on MRI scans.
- Integrated OpenCV and Pillow for image processing and manipulation.
- Provided features for uploading MRI images, detecting tumors, and visualizing tumor regions.
- Developed a user-friendly interface for easy interaction and result display.

SKILLS

- **Programming Languages:** Python, C++/C, Embedded C, SQL, MATLAB, Bash/Shell Scripting

- **Tools/Software:** Jupyter Notebook, MySQL, PostgreSQL, Visual Studio Code, Keil uVision5, STM32CubeMX, 8051 Microcontroller, STM32 Microcontroller, WireShark, Cisco Packet Tracer, LabelIMG, LabelMe, RoboFlow, OpenCV, Scikit-learn, TensorFlow, PyTorch, Keras, Streamlit, Multisim, MS Word, Excel, PowerPoint, Git/GitHub, Hercules, Logic analyzer(Saleae Logic), Docker Containers, Arduino IDE

- **Technical Skills:** Data Analysis, Data Annotation, Data Labeling, EDA (Exploratory Data Analysis), Machine Learning, Computer Vision, Natural Language Processing (NLP), Deep Learning, IoT Development, Embedded Systems, RESTful APIs Integration.