Mohsin Mehmoood

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Skills

- Python | C++ | Machine learning | Pytorch | Tensorflow | Scikit-Learn | SciPy | Matplotlib | Seaborn | NLTK | OpenCV |
- Azure | Cloud Computing | CI/CD | XUnit | OOP | AWS | KALDI-Toolkit | Swift | Pytest | Vim | Git | Github | GitLab |

Experience

Deep Learning Intern — **Horizon Tech Pvt. Ltd.** — *NSTP, Islamabad* — **08/2022 - Present**

- Developed **Vision Transformer** for Image Classification and Object Detection: Utilized deep learning techniques and developed a vision transformer model to perform image classification and object detection tasks. Improved model accuracy and performance through experiments and optimizations.
- Built Audio Cloning Application using TTS Pipeline: Constructed an application that utilized **TTS (Text-to-Speech)** pipeline to perform Audio cloning. Integrated TTS models with deep learning algorithms to achieve high-quality audio cloning results.
- Worked on **Pose Estimation Problem** using Animal Dataset: Collaborated on a pose estimation problem, utilizing animal dataset to improve the accuracy of the model. Utilized deep learning algorithms and computer vision techniques to perform pose estimation tasks. Conducted experiments to improve model performance and achieve desired results.

Data Science and AI Trainee — **SayabiDevs** — *Remote* — **01/2023 - Present**

- **Focused on Building Chatbots:** Collaborating on projects that involve building chatbots and other related data science applications. Utilizing machine learning and deep learning algorithms to improve the functionality and performance of chatbots.

Computer Vision & IOT Intern — **The Spark Foundation** — *Remote, Singapore* — **01/2021 - 02/2021**

- **Worked on Color Detection Problem:** Collaborated on a color detection problem, using deep learning algorithms and computer vision techniques to detectspecific colors in an image. Conducted experiments to improve model performance and accuracy.
- Implemented Object Detection using **Yolov4** Model: Utilized the Yolov4 model to perform object detection tasks. Improved model performance through experiments and optimizations.

Software Quality Assurance Intern — **Afiniti** — *Remote* — **08/2020 - 09/2020**

- Identified and Tracked Defects with AI Model: Conducted thorough testing of AI models to identify and track defects. Communicated issues and findings to the development team.
- Developed Test Cases: Worked as a Software Quality Assurance intern to develop and execute test cases that evaluated the functionality and quality of AI models. Contributed to the improvement of software quality by identifying areas for improvement and reporting issues to the development team.
- Supported Developers in Resolving Problems: Assisted developers in resolving problems by completing additional tests and providing constructive feedback. Helped to ensure that AI models were functioning correctly and met quality standards.

Education

Bachelor of Science — **Capital University of Science and Technology** — **09/2019 - Present**

- Major in Computer Science

Projects

- **Image Denoising Using AutoEncoders**: Built and trained an image denoising autoencoder using Keras with TensorFlow 2.0 backend.
- **Generating Synthetic Images with DCGANs**: Built and trained a Deep Convolutional GAN (DCGAN) with Keras to generate images of fashionable clothes.
- **Diabetic Retinopathy Detection:** Trained a deep neural network model based on Convolutional Neural Networks (CNNs) and Residual Blocks to detect the type of Diabetic Retinopathy from images.
- **Transfer Learning for Food Classification**: Built a deep learning model using pre-trained InceptionResNetV2 for food classification

Extracurricular Activites

- **Google Developers Student Club Lead**: Actively involved in the Google Developers Student Club, providing support and guidance to students, and helping foster a love of technology and innovation.
- **Microsoft Learn Student Ambassador:** Served as a Microsoft Learn Student Ambassador, working to promote Microsoft technologies, and helping to educate and inspire the next generation of technology leaders in the community.
- Participated in the **International Collegiate Programming Contest (ICPC)** preliminary round 2022