Fareed Khan

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Portfolio LinkedIn Github

SKILLS

- **Programming Languages**: Python, SQL, Dart
- **Programming Frameworks**: Tensorflow, Keras, OpenCV, Pandas, Numpy, Matplotlib, Seaborn
- **Technologies**: Machine Learning, Deep Learning, Computer Vision, Git
- **Languages**: Urdu(Native), English(Professional Proficiency), Arabic(Professional Proficiency)

EXPERIENCE

Mentorness — Gujarat, India
ML Engineer Intern — *Apr 2024 - May 2024*

- **Sigmoid Function Modelling**: Delved into the intricate realm of sigmoid functions, meticulously crafting models to illustrate their characteristic S-shaped curves and elucidate how they transform linear predictions into probabilities, providing valuable insights into the probabilistic nature of machine learning predictions.
- **Disease Prediction**: Contributed to cutting-edge research and development initiatives aimed at leveraging machine learning algorithms for disease prediction, utilizing data-driven approaches to analyze medical datasets, identify predictive features, and build robust models capable of early detection and prognosis.

Beta Byte Technology — Peshawar, Pakistan
Flutter Developer Intern, AI-Powered Apps — *Jul 2023 - Sep 2023*

- **App Development**: Actively contributed to crafting innovative mobile applications infused with AI capabilities using Flutter framework, enhancing user experiences and functionality.
- **AI Integration**: Collaborated on integrating AI features into applications, including but not limited to image recognition, natural language processing, and recommendation systems, elevating the app's intelligence and usability.
- **UI/UX Enhancement**: Played a pivotal role in refining the user interface and experience, ensuring seamless navigation and captivating visuals to delight users.
- **Testing and Debugging**: Engaged in rigorous testing and debugging processes to ensure the reliability and performance of applications across different platforms and devices.
- **Cross-Functional Collaboration**: Worked closely with cross-functional teams, including designers, developers, and product managers, to align on project goals and deliver high-quality results.
- **Version Control**: Demonstrated proficiency in version control management, utilizing Git to track changes, collaborate with team members, and maintain code integrity throughout the development lifecycle.

PROJECTS

- **Facial Expressify**: Develop a facial expression recognition system using deep learning with a target success rate of (>78%). Conduct iterative experiments to optimize data augmentation, loss functions, and hyperparameters, ensuring robust performance across varied scenarios.
- **Crop Guardian**: Implement a crop disease classification system leveraging transfer learning techniques. Drive the adaptation of pre-trained deep learning models for accurate identification of crop diseases. Execute comprehensive experiments to fine-tune transfer learning parameters guaranteeing strong performance in a range of crop kinds and disease situations.
- **Birds Eye**: Build a real-time bird detection pipeline using YOLOv8. Components include data collection, model building, training, inference, and evaluation. Python, CUDA (GPU acceleration), YOLOv8, and OpenCV. Goal was to provide a versatile solution for bird detection jobs.

EDUCATION

Abasyn University — Peshawar, Pakistan
Bachelor of Science in Computer Science; GPA: 3.36 — *Feb. 2020 – Mar. 2024*

- **Thesis**: Developed facial expression recognition using custom convolutional neural network model with streamlit (Grade 3.67/4.00)
- **Relevant Courses**: Data Structures and Algorithms, Artificial Intelligence, Machine Learning

International Indian School — Ajman, UAE
HSSC in Pre-Engineering — *Apr. 2017 – May. 2019*