Salman Asad

salmanasadakhss@gmail.com | +92-314-4431659
github | linkedin

Summary

Highly motivated Machine Learning Engineer seeks challenging role. Expertise in deploying cutting-edge models across diverse algorithms for real-world problem-solving. Proven abilities in data processing, feature selection, and model optimization. Extensive computer vision experience (image processing, segmentation and more). Eager to apply knowledge, drive innovation, and solve complex problems.

Education

Bachelor of Science - Computer Science **Sep 2020 - Jun 2024**
Air University, Islamabad

F.Sc. - Pre-Engineering **July 2017 - June 2019**
Aga Khan Higher Secondary School, Gilgit

Matric - Medical **March 2015 - June 2017**
Army Public School, Jutial, Gilgit

Relative Coursework

Artificial Intelligence | Data Science | Digital Image Processing | Probability and Statistics

Skills

Programming Languages Python | C++ | JavaScript
Tools and Technologies Tensorflow | PyTorch | Scikit-Learn | OpenCV | Pandas | Docker | Node.js | Flask | Django
Certifications Python for Data Science, AI & Development

Experience

Strada Imaging **Apr 2023 - Sep 2023**
Machine Learning Intern *Remote*

- Assisted in successfully labeling images with accurate classes including road, sidewalk, sky, and lane markings, among others, contributing to the development of a robust computer vision model.
- Gained hands-on experience in image labeling, employing various computer vision and image processing techniques such as histogram plotting, histogram equalization, and similar advanced methods.
- Successfully applied Computer Vision techniques to enhance image segmentation and improve accuracy in classifying patches on road.

Projects

Plant Disease Prediction with CNN
Python, Google Colab, Tensorflow, Keras, NumPy

- Analyzed massive image datasets (Kaggle's Plant Village) to train a smart system for identifying plant diseases.
- Prepared image data using techniques like resizing and normalization, ensuring the AI "sees" clearly.
- Designed and implemented a specialized AI model (CNN) for accurate disease detection in plants.
- Trained the AI model efficiently to deliver precise disease identification results.

Comparing Machine learning algorithms for movie rating prediction
Python, Pandas, Matplotlib, Seaborn, Sklearn, Google Colab

- This was a Semester project for my course: Artificial Intelligence
- Preprocessed the dataset, trained and evaluated each algorithm, and measured performance using metrics like mean squared error.
- Obtained valuable insights into the strengths and limitations of each algorithm, contributing to a deeper understanding of their performance for future prediction tasks

House Price Prediction
Python, Pandas, Numpy, Matplotlib, Sklearn, Jupyter Notebook

- Developed a robust house price prediction model using the Random Forests algorithm, utilizing a comprehensive dataset and rigorous preprocessing techniques.
- Conducted feature selection and optimized hyperparameters to maximize prediction accuracy, evaluated using metrics such as mean squared error
- Demonstrated proficiency in machine learning implementation, showcasing expertise in algorithm selection, data preprocessing, and model evaluation for real-world applications.