



DATA SCIENTIST

syedmuhammadzubairse@gmail.com



Enthusiastic data science graduate with strong analytical skills and programming knowledge. Seeking to leverage my academic background and project experience in machine learning and data analysis to contribute to a dynamic data science team.

Rawalpindi, Pakistan



SKILLS

- **Programming:** Python, R, SQL
- **Data Analysis:** Pandas, NumPy, NLTK
- **Machine Learning:** Scikit-learn, Pytorch
- **Data Visualization:** Matplotlib, Seaborn, Power BI

RESEARCH WORK

Thesis Title : Deep Learning Approaches for Wheat Crop Segmentation in Remote Sensing Imagery

- **OBJECTIVE:** The global population is increasing, particularly in developing nations, posing a pressing food security issue. To address this, precise agriculture research is crucial. This study introduces transfer learning UNet with Resnet, DeeplabV3+ with resnet model, and a semantic segmentation deep neural network model for wheat cover classification.
- **THESIS METHODOLOGY:** Developed a comprehensive computer vision methodology involving data preprocessing, model training, and testing. Employed techniques like masking, labeling, and augmentation during preprocessing. Split the dataset into training (60%), validation (20%), and testing sets. Trained and evaluated multiple deep learning models, including UNet, UNet with ResNet 50, and DeepLabV3 with ResNet, using the Intersection over Union (IoU) loss function. Optimized model performance by fine-tuning hyperparameters and leveraging regularization techniques.
- **THESIS CONTRIBUTION:** Collection of data from specified locations of wheat crop from satellite images. Utilization of transfer learning to improve the accuracy with state-of-art models. Comparison of the accuracy between the architectures like UNet, Deeplab, LinkNet.

CERTIFICATE

- Deep Learning with PyTorch : Siamese Network

ADDITIONAL SKILLS

- Strong problem-solving and critical thinking skills -
- Excellent written and verbal communication
- Fluent in English and Urdu

EXPERIENCE

Lecturer Government Graduate College Satellite Town (2 Nov 2024 - Present)

- Delivered comprehensive lectures on Design and Analysis of Algorithms and Web Development to undergraduate students, ensuring clarity in complex topics.
- Developed and implemented course materials, including lesson plans, lecture slides, and practical assignments, tailored to enhance students' understanding

MEDIA MATH WEB DEVELOPER (2 APRIL 2018- 30 JULY 2018)

- Collaborated with designers, product managers, and backend developers to implement user-friendly and functional features.
- Conducted debugging, troubleshooting, and testing to deliver high-quality, bug-free code.
- Optimized website performance, reducing page load times and ensuring cross-browser compatibility.

EDUCATION

National University of Computer and Emerging Sciences**Master in Data Science 2020 - 2023**

CGPA = 3.06

- Machine Learning
- Deep Learning
- Natural Language Processing
- Statistical and Mathematical Methods for Data Science
- Big Data Analytics

Foundation University**Bachelors in Computer Software Engineering 2013 - 2017**

- Object Oriented Programming
- Data Structure
- Database
- Web Development
- Calculus 1 & 2

PROJECTS

- Implementation of FaceNet Paper
- Detecting Road Surface Conditions Using Anova Testing
- Chi Square test on Heart Failure Data
- Movie Recommendation System content base recommendation.
- City Payroll Employee Salary Dataset