PAKEEZA ATIF

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CAREER OBJECTIVE

- A dedicated individual with a strong academic background, I am eager to contribute my skills in wireless communication and machine learning to a dynamic work environment. I am actively seeking a growth-oriented and inclusive workplace where I can contribute and flourish equally.

EDUCATION

MS Electrical Telecom Engineering

3.88/4 CGPA

2022 – Present SEECS, NUST

Bachelor of Electrical Engineering

3.7/4 CGPA

2017 – 2021 MUST

PROJECTS

Deep Learning Model for Novel COVID-19 Detection in CT Images (FYP)

Aug 2021

- The primary objective is to detect COVID-19 through computed tomography (CT) scan images. The proposed method employs deep learning techniques based on a Convolutional Neural Network (CNN). The project aims to differentiate between CT scan images of COVID-19 and non-COVID-19 cases using deep learning and assess the accuracy of the model.

Efficient Communication in a VANET Scenario with 21Vehicles,2RSUs,and1Drone

May 2023

- The project implemented a VANET system in NS2 with 21vehicles,2RSUs,and1drone,focusing on node deployment and dynamic link setup.A protocol for message routing was devised,where nodes establish links via requests and use greedy forwarding based on geographic distance.Evaluation through NS2 simulations assessed connectivity and reliability,aiming to optimize communication in dynamic vehicular environments.

Like vs. Dislike Prediction Using EEG Signals with Machine Learning

Dec 2023

- This study uses EEG signals to understand how our brains react to E-commerce products, revealing that increased activity in specific brain regions correlates with liking a product. By employing simple algorithms, we successfully distinguished between likes and dislikes, with the machine learning algorithms showing the highest performance. These findings provide valuable insights into the neurological basis of consumer preferences in online shopping.

Automatic number plate recognition using Yolov7 and EasyOCR

Jan 2024

- Implemented Automatic Number Plate Recognition (ANPR) using YOLOv7 for efficient object detection and EasyOCR for accurate text extraction. Integrated these technologies to create a robust system for automated license plate recognition in real-world scenarios.

Rip out Drug Labels using Deep Learning with PaddleOCR and Python

Feb 2024

- This project employs deep learning through PaddleOCR and Python to extract text from drug labels. It involves setting up the OCR model,detecting text regions in images,and visualizing the results by overlaying annotations on the original images.The process facilitates automated extraction of information from drug labels for various applications.

SKILLS

Python | Exploratory Data Analysis | Data Annotation | Roboflow | Matlab | C++ | Problem Solving | Microsoft word | Excel | Powerpoint | Latex

COURSES

Applied Linear algebra | Machine Learning | Stochastic System | Digital Signal Processing | Wireless Communication

LIBRARIES

Numpy | Pandas | Matplotlib | Seaborn | OpenCV | EasyOCR | Pytorch | Scikitlearn | Tensorflow

INTERNSHIPS

- Was a Summer Intern At WAPDA Mangla.
- Data Analytics and Visualization internship at ACCENTURE.

EXPERIENCE

- Teaching Assistant at SEECS, NUST for EE-891 Stochastic Systems.
- Work as Research Assistant in Smart Agritech lab at SINES, NUST.

MASTER THESIS

Millimeter-Wave radio propagation prediction in urban microcellular networks using Deep Learning(work in progress).