

PAKEEZA ATIF

@ pakeezaatif99@gmail.com 0348-0184985

CAREER OBJECTIVE

- As an electrical engineer with a strong focus on deep learning and wireless communication, I aim to contribute to your company's innovative projects by leveraging my expertise in machine learning for advanced communication systems. With experience in millimeter-wave radio propagation prediction and deep learning applications in healthcare, I am dedicated to solving complex engineering challenges and driving technological advancements in wireless networks, delivering impactful solutions that align with your company's strategic objectives

EDUCATION

MS Electrical Engineering (Smart Telecomm Systems & Networks)

3.88/4 CGPA

📅 2022 – Present

📍 SEecs, NUST

Bachelor of Electrical Engineering

3.7/4 CGPA

📅 2017 – 2021

📍 MUST

WORK EXPERIENCE

- Coding Fellow**
Coding Fellow at Murabbi for Grades 1-5 students.
(Sep 2024 - Present)
- Teaching Assistant**
Teaching Assistant at SEecs, NUST for EE-891 Stochastic Systems.
- Engineering Internships**
Engineer intern in Smart Agritech lab at SINES, NUST.
Power Engineer Intern At WAPDA Mangla.
- Analytics and Visualization Internship**
Data Analytics and Visualization Intern at ACCENTURE.

PROJECTS

- Thesis**
Millimeter-Wave radio propagation prediction in urban microcellular networks using Deep Learning.
This project involved processing a dataset of radio wave propagation parameters stored in an Excel sheet, which was transformed into corresponding images and masks. A U-Net convolutional neural network (CNN) was trained on this data to predict path loss in urban microcellular networks. The model's performance was evaluated using Root Mean Square Error (RMSE) on test images, demonstrating its potential to enhance mmWave radio channel modeling for 5G and beyond.
- FYP**
Deep Learning Model for Novel COVID-19 Detection in CT Images. This project developed an ensemble deep learning model, EDL-COVID, for rapid COVID-19 detection using CT images. The model combined AlexNet, GoogleNet, and ResNet for feature extraction, utilizing Softmax for classification. Evaluation showed that EDL-COVID outperformed individual classifiers in accuracy and sensitivity, demonstrating its effectiveness for timely COVID-19 detection.
- Semester Project**
EEG-Based Like vs. Dislike Prediction: Using EEG signals, the study employs machine learning to distinguish between liked and disliked E-commerce products, providing valuable insights into consumer preferences in online shopping.

SKILLS

- Programming languages:**
Python and C/C++.
- Libraries:**
Numpy, Pandas, Matplotlib, Seaborn, OpenCV, EasyOCR, Scikit-learn, TensorFlow.
- Exploratory Data Analysis:**
Data Cleaning and Preparation, Data Visualization, Statistical Analysis.
- Data Annotation.**
- Problem Solving.**
- Microsoft Office Applications:**
Word, Excel, PowerPoint.

TOOLS

- MATLAB
- Visual Studio
- Roboflow
- Scratch Programming tool
- LabVIEW
- Adobe Illustrator
- Canva
- LaTeX

VOLUNTEERING

- Volunteer at KORT (Kashmir Orphan Relief Trust.)**
- Supported community outreach and fundraising.
- Organized recreational activities for children.