

# MUHAMMAD HAROON SHAH

PYTHON DEVELOPER



## WORK EXPERIENCE



### Python and Machine Learning

Working as a full-time Software Developer at IT4Solutions. During the period at IT4Solutions were to plan, design, develop, test and document application software using python and machine learning.

February 10, 2021 to August 15, 2023.

- Managed all design projects in coordination with all design coordinators, architects and engineers and ensured client satisfaction.
- Designed projects within required timeframe and set appropriate targets for team members.
- Monitored all phases of design process and identified any risks involved in the project.
- Participated in various service meetings for client.



### Projects

#### Roof Score Detection

- Roof Score Detection an algorithm to detect roofs and classify materials from satellite images
- Using that information by measuring the conditions where the building is located and detecting the position of a building in broad satellite images.
- Depending on the incomplete roof or material, there is a greater possibility of great damage caused by disaster situations or external shocks
- Using images of the detected buildings, we classify the material of the roof using a proposed convolutional neural network (CNN) model algorithm consisting of 43 layers.



#### Reconstruction Cost Estimate

- Using ANN technology to predict reconstruction costs with consideration of various influencing factors
- Analysis of the change in construction cost prediction performance was conducted by scaling and regularization.



[linkedin.com/in/haroonshah](https://www.linkedin.com/in/haroonshah)



[haroonshah959@gmail.com](mailto:haroonshah959@gmail.com)



+923091044067



Grid Road, Opposite: Qurtaba University, Dera Ismail Khan

## RELEVANT SKILLS

- Python Programming
- Machine Learning and Deep Learning
- Django and Flask
- Data Analysis
- Statistical Analysis
- Data visualization
- SQL
- No SQL
- MS office

## CERTIFICATIONS

- Google Advanced Data Analytics Professional Certificate (2024)  
<https://www.coursera.org/verify/professional-cert/2ZUPGWVE5XPG>
- CCNA (R & S) & CCNA Security (2018)

## LANGUAGE SKILLS

- English
- Urdu

- Depending on the incomplete roof or material, there is a greater possibility of great damage caused by disaster situations or external shocks
- As a result of predicting several sub-construction costs using multioutput-based ANN, it was found that the prediction error rate varies depending on the type of construction.



### **Detection of Covid-19 Using X-RAY images (Deep Learning) (FYP)**

- Model Trained with Convolutional Neural Network. Dataset of 10,000 Covid effected patient.
- Train model on 7500 images of Covid effected patient). we train and test our model to analyze the images as COVID or normal
- The proposed model achieves encouraging results of 0.96, 0.96, and 0.95 in terms of precision, recall, and f1-score, respectively.

## **EDUCATION HISTORY**

### **Bachelor of Science in Computer Science**

Lahore Leads University

2021

### **Diploma in Information Technology**

Khyber Pakhtunkhwa Trade Testing Board

2017

### **FSc (Pre-Engineering)**

BISE Dera Ismail Khan

2016