

# Muhammad Sohail

+92-3419628090 · muhammadsohail171013@gmail.com



---

## EDUCATION

**Islamia College University Peshawar**  
Bachelor in Software Engineering

Sept 2021

---

## PROFESSIONAL EXPERIENCE

### Computer Vision Developer

NCAI UET, Peshawar

#### Accident Detection using Yolov5

- **Data Collection:** collected information from several platforms and used the label-img tool to build a dataset with labelled photos..
- **Data Preprocessing:** The raw data was preprocessed using Python packages.
- **Model Training:** Trained Yolov5 model using the labelled images.
- **Implementation:** Use the computer vision library for real time localization of accident detection.

#### Mask wearing Detection using yolov5

- **Data Collection:** collected information from several platforms and used the label-img tool to build a dataset with labelled photos.
- **Data Preprocessing:** Preprocessed the raw data using Python libraries.
- **Model Training:** For training the model i have used the pre-built Yolov5 model.
- **Implementation:** Used OpenCV for real-time video surveillance.

## ACADEMIC PROJECT

### Facial Expression Recognition using Deep Learning

- **Data collection :** I have made the dataset of Seven Hundred images of different types of Human Facial Expression.
  - **Data preprocessing:** Used the python programming language, Data cleaning and feature engineering step were applied.
  - **Model Training:** To train the model i have used LeNet model to train the model upon seven different categories of human expression recognition dataset.
-

# DATA ANALYSIS PROJECT

## Data Analysis of Titanic Dataset

- **Method:** For data analysis, I have uploaded the dataset then data cleaning, feature engineering, steps were applied.
  - **Tools:** I have used the Microsoft Power BI software for data analysis.
  - **Results:** The analysis gave me a better result upon my data processing.
- 

## PROFESSIONAL CERTIFICATION

### Artificial Intelligence Certification

2021-2022

Kamiyab Jawan Program | NCAI UET, Peshawar

### Data Analytics

2021

KP Information Technology Board

---

## SKILLS

### Technical Skills

*Python (Language), PowerBI (Tool), Tensorflow, Keras, Scikit-Learn, NumPy, SciPy, Pandas, Matplotlib*

### Key Skills

*Machine Learning Algorithms, Linear Regression, Logistic Regression, Support Vector Machines (SVM), K-Nearest Neighbors (KNN), Computer Vision, Data Visualization, Model Training*