MUHAMMMAD BILAL

PYTHON COMPUTER-VISION SYSTEM DEVELOPER

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Objective

   A competent and organized individual, who is able to work in a team and manage several priorities at one time, with a positive attitude, strong work ethic. As a dedicated and work oriented professional, I aim to make any office I work in as effective and efficient as possible.

Experience: 1.8 Year

- **COMPUTER VISION & MACHINE LEARNING WEB-APP**

  EcoLogix: A US based Ecommerce firm, primarily runs Buying-Selling Automation System.
  Responsibilities:
  · Cloud based Django application for feature Matching of a query image in a huge database.
  · Implementation of Machine Learning and Deep Learning classification models.
  · Custom Object Detection using TensorFlow Transfer learning approach and instance segmentation in images using Facebook's Detectron2, YOLACT and with Keras (Mask-RCNN), .
  · Implementation of efficient (custom) Object tracking in videos and Measuring their dimensions.

- **IMAGE PROCESSING & SYSTEM APPLICATION**

  DreamsTechSolutons: An NIC start-up software house based in Model Town, Lahore.
  Developed a Government project to facilitate the Military Snipers.
  · Advanced image processing algorithms to detect objects in Dynamic backgrounds.
  · Analyze the objects from video, record their size, locations and provide augmented output.
  · Interfaces, Custom Detectors, Threading, Master-Slave Scheduling and Networking operations.
  · Implementation of Decision Trees, Regression and Association rules for training models.

- **PROJECTS**
  · Face Recognition system using OpenCV(+Dlib) in Python (using Deep learning) and JAVA.
  · Management systems with dynamic data structures in JAVA/C/C++ & AR filters in Android device.
  · Information Retrieval, Document ranking and Pattern Analysis in Data Science.
  · Feature Engineering, Data Visualization and Association rule mining (in Artificial intelligence) for business growth according to consumer behavior.

Education

GRADUATION | FEB 2014-2018 | COMSATS UNIVERSITY

- Computer Science with Image Processing Major.

INTERMEDIATE | JUN 2011-JUN 2013 | CRESCENT MODEL COLLEGE

- Science: F.Sc. Pre-Engineering.

Skill Set

PROGRAMMING

Image Processing (Python/JAVA)	……………… (Detectron2, YOLACT) ………………	★★★★☆
Data Structures	…..……………........ (Python, C/C++, JAVA) …………………………	★★★☆☆

TOOLS AND TECH

OpenCV (Python)	……………...(Scikit-learn, DNN ,TensorFlow, Pandas, Dlib)……………	★★★★☆
Django	…………………………...(Web-App, RestfulAPI, Linux Cloud, Keras)…………………	★★★☆☆
Google Cloud	…………….…..................(RCNN, Registration, FaceNet)……………………	★★★☆☆