Hamza Mustafa

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career objective.

Looking for a challenging software engineer position in well reputed company where I can leverage my skills & knowledge and want to work in cutting- edge technologies

education.

University of Lahore   **| 2020**

Bachelors – BS (Computer Science)

Punjab Group of Colleges   **| 2015**
Intermediate, F.Sc (Engineering)

Lahore Grammar School   **| 2013**
O-level, Engineering

Skills

- **Languages:** Python, Java, C, HTML5, CSS3, C++,php

- **Applied CS:** Machine Learning, Deep Learning, Data Science, Web development

- **Tools:** Git, Notebooks (Jupyter, Kaggle, Google Colabs etc..), PyCharm, GitHub

- **Technology-stack:**Bootstrap,   Tensorflow, OpenCV, Scikit-learn, Keras, numpy, pandas, matplotlib

exposure.

Published a Python Package on PyPI: fire_detection

- fire_detection is a minimalistic low code deep learning library in python.
- Extremely useful for fire detection in real-time video.
- Can be used in homes, organization for fire detection through CCTV.
  Check out: pip install fire_detection

Student Mentor | jan 2019 – present

- Personally mentor and teach English and Mathematics to students.
- It's really fun and a great learning curve to help and teach peer students

General Secretary (Society of Computer Science –SCS) | sep 2019 – aug 2020

- Responsible for event reports and proposals.
- Maintaining effective records and administration
- To deal with arrangements for events

Intern at Hayat Builders | june 2019 – aug 2019

- Technical tasks with team.
- Data collection, setting criteria, and doing analysis.
- Proposal Writing

personal projects.

Facial Emotion detection:
Deep learning and Image Processing Project
- Here a convolution neural network is trained with a Kaggle dataset which consists of 35000+ images.
- This dataset is labeled with 6 different basic Emotions such as Happy, Angry, Sad, Neutral, Disgust, Surprise.
- trained the model upto 200 epochs with batch size of 32
- Got approx 70% Accuracy for cross validation data set.
  Link: https://github.com/hamxam1/emotiondetectorbycnn

Attendance using Face Recognition
An Open CV Project
- automate the manual work of taking Attendance with Face Recognition Technology
- Implement LHBP Algorithm (Face recognition algorithm) using OpenCV
- Using Web camera, we detect the faces and compute binary pattern histograms of detected faces and compare them with binary patterns present in the database
- Automatic Attendance done in .csv file.
  Link: https://github.com/hamxam1/attendancesystem

TESTREE (Final Year Project)
An Deep learning and Image Processing
- A deep learning project to estimate yield of citrus tree.
- It uses Faster RCNN technique; model trained over 1500+ images.
- It attained the accuracy of around 92%.

for more projects, please visit: hamxam1.github.io

certifications.
- **Machine Learning Foundation**
- **Data Science Foundation**
- **Deep Learning Foundation**
- **Machine Learning Foundation**
- **Git and GitHub**
- **Fundamentals of IOT**
- **Building a Face Detection and Recognition (Udemy)**

achievements & activities.
- Organizer of many workshops & International Conferences.
- Student Sub-Coordinator of Sports Gala.
- Content Writing Head of SCS.