

Abdul Mannan

Computer Scientist

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Summary

A passionate student of computer sciences with a strong and thorough academic background in the programming languages. An enthusiast of automation of tasks. Strong theoretical concepts having a well rounded communications skill set to make my voice heard and noted.

Work experience

Robotic Process Automation Internee

2019 - 2020

JS-Bank

Team member of finance squad for a duration of 6 weeks

Teaching Assistant

2019 - 2020

National University Of Computer And Emerging Sciences- Karachi

Teaching assistant of Artificial Intelligence Fall 2019, Spring 2020

Education

Bachelors of Computer Science

2016 - 2020

National University of Computer and Emerging Sciences-Karachi

CGPA: 3.09

Intermediate in Pre-Engineering

2014 - 2016

Adamjee Government Science College

A-1(83.09%)

Matriculation

2013 - 2014

Abdalian Academy

A-1(84%)

Certifications

- Deep Learning Specialization by Andrew Ng
- Data Science methodology- IBM
- Data Analysis with python-IBM
- Databases and sql for datascience-IBM
- Introduction to data visualization with seaborn-Datacamp
- Supervised learning with scikit learn-Datacamp
- Introduction to Data Analytics for Business-University of Colorado

Skills

- Data Science
- Machine Learning
- C#
- Windows services
- Team management
- Data visualization
- Robotic Process Automation
- Java
- Windows Form
- Presentation skills
- Data analysis
- Python
- Sql
- Agile methodology
- SRS, SDS, Latex documentaion

Projects

- **Robotic Process Automation at JS Bank - [Internship](#)**

1. Live project for automation of finance department excel workbooks. Tools and languages used during the internship period were C#, sql, UI Path, visual studio and JS-bank VM (for deployment of project).
2. Automation of tasks like web scraping, Excel workbooks and emails generation using UIPath etc.
3. Debugging of codes

- **Python Programming:**

- **Classification Projects:**

- Neural network from scratch(CS231n)
 - MNIST using neural network and CNN
 - CIFAR-10 using CNN
 - Credit_Card_Fraud_Detection using local outlier factor and isolation forest
 - House Sales in King County using linear and ploynomial regression
 - Kaggle home price prediction using random forest and linear regression

- **Exploratory data anaylsis:**

- Comparative Analysis of Covid-19 Spread in major impacted countries.
 - Pakistan School dataset - Kaggle
 - House price prediction dataset - Kaggle

- **Occluded Facial Expression detection - [Final Year Project](#)**

A research based project i.e. Occluded Facial Expression detection in real time covering the domain of deep learning and computer vision. Generates feedback of a group of people by predicting the facial expressions of multiple subjects at the same time. Works on video obtained by an angular camera. Tools and languages used are Python, openCv, Keras, tensorflow, visual studio and google colaboratory.

- **Pinto Prototype - Information Systems Security**

Implemented computer vision, neural networks and cryptography principles. Tools and languages used were visual studio, c#, python, openCV, self signed certificates.

- **Facial recognition based attendance system**

Implemented using face_recognition and opencv library and windows form C#

- **Object and face detection**

Used different algorithms such as Yolo, Haar, HOG, MTCNN, MobileNet etc

- **Java Programming:**

- **Corona tracker app**

A basic web-app to understand spring boot framework. Fetches covid data from a github repo and displays in table. Utilizes bootstrap, java, spring and thymeleaf.

- **Solution of 8 queen's problem** using Constraint Satisfaction Problem (CSP) & Genetic Algorithm.

- **Vector Space Model implementation** - Information Retrieval

Ranks documents on the basis of similarity with the given query

- **Boolean information Retrieval**- Information Retrieval

Given a query, returns the documents containing the desired term