

# 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.

## 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%)

## 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 Spring 2020

Teaching assistant of Artificial Intelligence Fall 2019

## 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

## Skills

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- Data Science
- Machine Learning
- Robotic Process Automation
- Java
- Presentation skills
- Data visualization
- Deep learning
- C#
- Sql
- Agile methodology
- Data analysis
- Artificial Intelligence
- SRS, SDS
- Windows services, Windows Form
- Team management

## Projects

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- **Classification Projects:**
  - Comparative Analysis of Covid-19 Spread in major impacted countries.
  - 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 polynomial regression
  - Kaggle home price prediction using random forest and linear regression
- **Exploratory data analysis**
  - Pakistan School dataset - Kaggle
  - House price prediction dataset - Kaggle
- **Robotic Process Automation at JS Bank**
  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
- **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 colab.
- **Pinto Prototype** - Information Systems Security

Implemented computer vision, neural networks and cryptography principles. Tools and languages used were visual studio, c#, python, openCv, selfsigned 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
- **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
- **Hospital Management System Website** - Database

Website was made using html, css and php whereas database was made on phpmyadmin.