Naveed Ahmed

IDENTIFICATION

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MrNaveedgit

English , Urdu and Punjabi

PROFILE

Experienced Developer committed to maintaining cutting edge technical skills and up-to-date Industry Knowledge. I love doing what I do, that is researching Computer Vision, Deep Learning, Autonomous Navigation, Robotics and Full Stack Web, Mobile, Desktop App Development .

EDUCATION

August 2017 - Present (Till May 2021)

Bachelor of Computer Science(BSCS)

University Of Gujrat (Main Campus)

CGPA – 3.63/4.0

Sep 2015- May 2017

ICS (physics) 1st division

Punjab College (Gujrat Campus)

Percentage – 84.63% (ICS)

EXPERIENCES

- **Feb. 2020 – Present**

  University Of Gujrat (Research Cell)

  Research Assistant

  My research areas are Machine Learning, Deep Learning and Data Science.

- **May. 2019 – Sept. 2019**

  Full Stack Desktop, Web and Mobile App Developer (Intern)

  I learned how to work in team, I made many applications for different clients. I learned many industry skills. I learned how to meet client's requirements and

CERTIFICATIONS

1. *Deep Learning Specialization (By Andrew Ng, formerly Chief Scientist,Baidu and founding lead of Google Brain)*
2. *Getting Started with AI using IBM Watson(By IBM)*
3. *Python for Data Science and AI(By IBM)*
4. *Machine Learning (By Andrew Ng)*
5. *AI For Everyone(By Andrew Ng)*
6. *Artificial Intelligence (By Andrew Ng)*
7. *IBM Data Science and Computer Visión (By IBM)*
8. *IBM Applied AI Professional Certificate(By IBM)*
9. *Tensorflow Deployment Specialization(Deeplearning.ai)*
10. *Python for Data Science and AI (By IBM)*
11. *Predict Employee Turnover with scikit-learn(on Coursera)(By Rhyme.com)*
12. *Data Scientist (By IBM)(in progres)*
13. *Introduction to Self-Driving Cars(University of Toronto)*

CURRENT RESEARCH PROJECTS

- *CONTROL ROBOTS USING MIND (FEELINGS)*
  Prof. Dr. Dean M Aslam (Director, BIOMEMS and Mind Lab, Michigan University, USA)
- *END-TO-END DETECTION AND CLASSIFICATION OF ALZHEIMER'S DISEASE USING DEEP LEARNING*
  Assistant Prof. Naveed Anwar
  (University of Gujrat, PK)
- *CLASSIFICATION OF SCHIZOPHRENIA DISEASE USING MACHINE AND DEEP LEARNING*
  Assistant Prof. Naveed Anwar
  (University of Gujrat, PK).
- *COVID-19 prediction using Machine Learning*
  Assistant Prof. Naveed Anwar
  (University of Gujrat)
- *COVID-19 prediction using Machine Learning*
  Assistant Prof. Naveed Anwar
  (University Of Gujrat)

TECHNICAL SKILLS

Programing: C++, Python, C#.Net

Web Technologies: HTML5, XML, JavaScript, jQuery, CSS, Flask, AJAX, PHP

Databases: SQL Server, MySql, MS Access

Operating System: ROS(Robot Operating System), Windows, Linux (Ubuntu)

Tools: Google Colab, MS Office, Microsoft Visual Studio, Jupyter Notebook, CrystalReport, Dreamweaver

Hardware: Arduino, Raspberry Bi, ESP32

HONORS & REWARDS

- *IBM Digital Badge of Python for Data Science and AI*
- *First position holder during my intermediate and High school.*
- *Merit scholarship holder during my intermediate as well as during my bachelor degree.*

PROJECTS

DATA SCIENCE & Machine Learning

- ❖ A Heart Disease Prediction System
  - This program detects breast cancer, based off of data using twenty different ML classifiers and Ensemble Learning.
- ❖ Bitcoin_Price_Prediction System
  - This Program predict bitcoin Price using SVR with accuracy 0.88.
- ❖ Breast Cancer Detection System
  - This program detects breast cancer, based off of data using Logistic Regression, K Nearest Neighbor, Support Vector Machine, Gaussian Naive Bayes, Decision Tree Classifier, Random Forest Classifier.
- ❖ Kidney Disease Prediction System
  - It Will detect chronic disease on base of data.
- ❖ Diabetes melitus prediction System
  - This program detects/predicts if a person has diabetes (1) or not (0).
- ❖ Email Spam Detection System
  - This program detects if an email is spam (1) or not (0) using NLP preprocessing tan use MultinomialNB to classify.
- ❖ Employee Attrition Prediction System
  - This program predicts employee attrition using RandomForest Classifier.
- ❖ Classification Of Cardiovascular Disease
  - This program classifies a person as having a cardiovascular disease (1) or not (0) using RandomForestClassifier.
- ❖ Prediction Of Closing Stock Price Using LSTM
  - This program uses an artificial recurrent neural network called Long Short Term Memory (LSTM) to predict the closing stock price of a corporation using the past 60 day.

- ❖ Movie Recommendation System
    - This Program is movie recommendation engine (more specifically a content-based recommendation engine) and recommend using Cosine Similarity.
- ❖ NBA Basketball Exploration

  This code explores the NBA players from 2013 - 2014 basketball season, and uses a machine learning algorithm called kMeans to group them in clusters, this Will show which players are most similar
- ❖ Predict House Price Using Neural Networks
    - This program predicts if the price of a house will be above the median price or not based off of it's features.
- ❖ Predict Stock price of GOOG stock
    - This program predicts the price of GOOG stock for a specific day using SVR and Linear Regression.
- ❖ Resume Scanner
    - This Program see how similar a resume is to a job description CV
- ❖ COVID-19 ChatBot System
    - I take an Article than by using Cosine Similarity give best match answer.
- ❖ Text to Speech System
    - Convert any text(articles) to voice.
- ❖ Lungs Cancer Detection From X-ray Using Transfer Learning
    - Classify Lungs Disease using VGG16 and VGG 19.
- ❖ Analysis of Transactions of a bakery and appply apriori algo and Fpgrowth algo
    - This program Will do analysis first with graphs and then apply Aprior Algorithum & FPgrowth algo and generate rules and frequent items.
- ❖ Fraud Detection System
    - This program Will explore the data and apply different machine learning methods and comparing their results against each other and detect Fraud.

Deep Learning & Computer Vision

- ❖ Gesture Recognition using CNN Tensorflow
    - Train model on gestures data using differenet number of echos and learning rate than Predict Gesture.
- ❖ Autonomous driving - Car detection
    - Detect Cars in image using non-max supression and YOLO.
- ❖ Face Recognition System using facenet model
    - Face verification solves an easier 1:1 matching problem; face recognition addresses a harder 1:K matching problem.
    - The triplet loss is an effective loss function for training a neural network to learn an encoding of a face image.
    - The same encoding can be used for verification and recognition. Measuring distances between two images' encodings allows you to determine whether they are pictures of the same person.
- ❖ Human Pose Estimation
    - This program do Human Pose Estimation using a pre-trained Caffe model.
- ❖ Cat face Detector
    - This Program detect cats in images using the default Haar cascades shipped with OpenCV.
- ❖ Art_Generation_with_Neural_Style Transfer
    - This also generate art by Content Cost Function, style Cost Function and than by putting them together.
- ❖ Pedestrian Detection
    - This Program Predict pedestrian using the OpenCV library and HOG.

- YOLO object detection
  - This Program perform YOLO object detection using Deep Learning, OpenCV.
- Trigger Word Detection
  - Trigger word detection used to wake up upon hearing a certain word.This is a speech recognition project that Synthesize and process audio recordings to create train/dev datasets and thanTrain a trigger word detection model and make predictions.
- Facial landmarks detection
  - This program first localize a face in an image than apply the shape predictor.
- Traffic Light Classifier
  - This Program classify the state of Traffic Light.
- Optical Character Recongnition
  - This program convert image to text, Getting boxses around text in image, Text template matching in image in multiple Languages.
- Word Vector Representations to build an Emojifier
  - This program used word embedding , train model in keras , add Embedded layer, cosine similarity etc to build and Emojifier.
- Generate music using LSTM
  - A sequence model can be used to generate musical values, which are then post-processed into midi music and Fairly similar models can be used to generate dinosaur names or to generate music, with the major difference being the input fed to the model.
- Face Clustering
  - This is and Unsupervised learning task and to cluster the actual faces into groups of individuals this program use the DBSCAN algorithm.
- Generate Shakespeer Poems using LSTM model
  - Train LSTM on shakespeer poem than it Will generate new poem by taking only first phrase.
- Detecting Barcodes in Images with Python and OpenCV
  - This program detect barcode than do some preprocessing and than make contour aroung barcode using OpenCV.

NATURAL LANGUAGE PROCESSING

- Spam Classifier
  - It Will classify either email/text spam/not spam using NPL techniques.
- Overview of NLP
  - Data Visualization
  - Sentiment Analysis

ROBOTICS & IOT

- Line Follower Robot
  - This robot Will follow the line using IR sensor.
- A GUI application that give live update of temprature with graph using temprature sensor
  - I make C# desktop application that give live update of temprature using Arduino and Temprature Sensor.
- Microcontrollers
  - Arduino
  - ESP32
  - Raspberry PI

DESKTOP APP DEVELOPMENT

- TAILOR MANAGEMENT SYSTEM IN URDU LANGUAGE
  - I am first developer in my area who transit tailor shop from manual System to computerized System.
  - This app fulfill all requirements of tailor management like record management, receipt Printing.
- PROTO TYPE OF UBL (United Bank Limmited) ATM machine
  - This app have same interface that have real ATM machine.
  - Cash Transfer, Balance inquiry, Cash Withdraw etc.
  - Mobile SMS Verification alert.
  - Receipt Printing.
- PROTO TYPE OF MS PAINT APPLICATION
  - This app we can draw different shapes like line, circle, rectangle, triangle etc and also text box.
- PROTO TYPE OF FACE DETECTION AND RECOGNITION
  - This app Will detect fase first than recognize.
- CLIENT SERVER CHAT APPLICATION
  - This program show how two processes communicate with each other using TCP/IP protocol.
- Personal Assistant using Speech Recognition
  - It Will perform different task on voice command.

Full Stack Web Development

- FARAN PEIGON CLUB
  - This is full Dynamic website for Peigons Club managers in which they manage different task like Live update of match, scoring of page, Positions holders live ranking ,User Account management etc with interactive Admin pannel.
- GENERAL ELECTRONICS
  - This is ecommerce website in which they have centralized database for all shops in different cities and full online management System, reports, message alerts etc.
- ALUMINIUM SHOP
  - This website is for aluminimum shop.
- City Tyres Preston
  - This is tyre shop in England i transformed that shop from manual System to online System.

NETWORKING

- Packet tracer
- ZenMap
- WireShark