ABDURRAHMAN MASOOD

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Summary

An ambitious, motivated and responsible engineer. Who have a spirit of life-long learning and a firm believe in how technology can change the lives of people. He is a analytical thinker, team player and problem solver who is looking forward for new challenges and opportunities. Working under pressure and thinking out of the box for finding solutions that require exhibiting technical expertise urging him to explore more learning.

Skills

Programming Languages: C, C++, Python, MATLAB, Verilog, VHDL, Lab View
Framworks & Libraries: Pandas,Numpy, Matplolib, Scikit-Learn, Keras, Tensorflow, Flask, FastApi, Odoo
Software Tool & Simulation: Git, Simulink, Proteus, PSpice, LTSpice
Hardware: Arduino, Raspberry Pi, FPGA

Work Experience

Software Engineer (Python) at Techloyce (1 - year | Dec 2020 - Dec 2021)

- Developed/Maintained modules that provided connectivity with third party applications like Office365, Hubspot, Salesforce, NetSuite etc for seamless user experience
- Analyse customer needs modified existing modules to support business requirements.
- Practise agile scrum methodology for incremental development
- Perform unit and integration testing to prevent bugs
- Provided high-level technical support

IoT Engineer Intern at Ismile Technologies (Remote 3 - Months | Sep 2020 - Dec 2020)

- Being a team leader i am responsible to lead the entire project. We had to design a robot that will go inside the sewer pipeline to detect anomalies like crack, biological objects and blockages. (Raspberry Pi)
- Deployed Custom Vision/YOLOv3 object detection model on flask. Created an Flask based frontend website that shows detection with bounding boxes.
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Projects

- Vehicle-To-Vehicle (V2V) Communication For Collision Avoidance: Undergrad Final Year Project Focuses on providing SAE Level 1 driver assistance system to the driver on the road. Through V2V communication the driver gets Front Collision Warning (FCW) alerts and intersection assist about other vehicles crossing the junction. Implemented Wi-Fi based communication. Used TCP for message communication between vehicles. Fetched sensor data (Speed, Distance, GPS) through UART interface. Designed algorithm by fusing this data together to generate warning alerts. (Raspberry Pi & Arduino)
- CO_2 Emission Detector: Implemented multivariate linear regression to detect CO_2 emissions of new light-duty vehicles in Canada obtained an accurracy of 90%.
- Cancer Detection: Classified human cells to detect cancer whether they are benign or malignant by using Support Vector Machine (SVM) and obtained an F1 score of 0.99 or 99% accurracy.
- Customer Segmentation: Applied K-Means Clustering on customer dataset to segment them into different groups based on common characteristics.
- Digit Recognition: Recognized digits by implementing Convolutional Neural Network (CNN) on MNIST dataset and obtained an accurracy of 99%.

Cerifications & Specialisations

Machine Learning - Stanford

AI Engineering - IBM (Ongoing)

Deeplearning - deeplearning.ai (Ongoing)

Tensorflow Developer - deeplearning.ai (Ongoing)

Computer Vision Basics - University of Buffalo & The State University Of New York

Data Science - IBM (Ongoing)

Education

COMSATS University Islamabad, Lahore Campus   BS Computer Engineering (2020)
Beaconhouse School   A-Levels (Sciences)
The City School   O-Level (Sciences)