Pragnesh Prajapati

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Objective

Passionate machine learning professional and data-driven analyst with the ability to apply ML techniques and leverage algorithms to solve real-world business problems. Established ability in deploying effective predictive models across different area to accurately forecast consumer behaviour and deliver proven results.

WORK EXPERIENCE(4.5+ years)

Sr.Data scientist (June 2021 –Present) at **Cerebulb(India) private limited** , Gandhinagar Gujarat India .
Role : As Data scientist model development, Develop end to end solution.
Predictive maintenance (RUL): Work with the model department to schedule PM's and avoid unnecessary maintenance. I have developed a custom mathematical model as well as used machine learning similarity model.
Employee attendance system:Working on employee attendance systems using face detection and recognition.
Sugar PH quality measurement: Using Different set point value we need to control ph value of sugar. I have developed a multivariate vector autoregression model and made exe for production.

Data science solution architect": AT&T (contract)
Working on H2O products like H2o wave, h2o MLOPS ,MLflow ,Driverlessai.**integrating all these module in databricks**.Completed/Created sample notebooks(NLP/Tebuler) with all integration in **databricks's spark cluster(multiple configuration).**integrate different **databases like palantir,snowflake, mysql, ADLS into Databricks as well as in h2o products.**
as well as working on **azure devops operation**.
completed teleport acr project in production environment

Consultant Machine learning (July 2017 –June 2021) at **AMNEX INFOTECHNOLOGIES PRIVATE LIMITED**, Ahmadabad.
Role: Developing end to end solution with client communication.Visit Client site if needed(at Adani,NMMT, NHAI)
Video Incident detection solution(VIDS) : To avoid an accident and traffic jam on the highway, It includes stationary vehicle detection , wrong side vehicle detection , pedestrian and group of people detection.**Developed model and done POC**. (client: National Highway Authority of India)

Road Health and Asset Monitoring System : To detect road health and assets like (Different type of cracks on road ,Sign board , light pole, Speed board etc) on highway i have used retinanet and some Opencv techniques. **all these are mapped with lat-long and GUI design with Dash library.Product under is in development.**(client: National Highway Authority of India)

Predictive analytics for Toll Plaza : **Algorithm development** , **Model development** and GUI Development.I have used FBprophet for prediction from multiple models. Made an end to end product and delivered.(client: National Highway Authority of India)

Predictive analytics for ATCS (Automatics Traffic Control System) - To Forecast the traffic and control traffic - flow of every day.Model Development and deployed.(client : Tumkuru smart city)

Covid-19 Analysis and prediction - Data scraping using pandas framework , predictive analysis of active cases , death and bed in hospital, Developed and deployed for **Indore Government**

Vehicle detection ,classification and count : It is part of ATCS, In house camera firmware development to detect vehicles and count.

Crop classification - Crop classification of crop images taken by surveyors. I have used InceptionV3 with 98% accuracy and classified it. **integrated it with a live application and made an end to end product**. MSSQL database used in it.(client Gujarat government)

Predictive analytics of Vehicles and collection of Toll plaza with dashboard : **To predict the vehicle traffic and collection(Rupees) of every day**. Techniques like ARIMA, FBprophet are applied. For Dash board I have used Dash , plotly and mapbox.(client: National Highway Authority of India)

On Bus Unit (OBU): Linux based device Development.Integration of Peripheral devices like Camera ,PIS ,GSM ,GPS ,CAN bus etc., GUI design development(pyqt4.0) completed POC for tender and delivered product in defined time.

Automatic Number Plate Recognition system(ANPR): Number plate detection using cross road camera, I have done research and developed model.

IOT Projects are

RTLS (real time localization system) – To track person in indoor environment .Indoor localization system using BlE(Bluetooth low energy), Embedded S/W development in python/ embeddedC.Developed Custom tracking algorithm. **Made an end to end product and delivered (Client Adani)**.

PIS System Integration - Passenger Information system were Integrated, with existing ITMS (Intelligent Transport Management system). **Made an end to end product and delivered**.(client NMMT)
AVLS (automatic Vehicle Localization System)- as system Integrator/Technical Representative at Navi Mumbai around 5 months till Go-live certificate. Client coordination, onsite solving client issues.(client NMMT)

TRAINING / INTERNSHIP
        Epsilon electronics (July 2016 -- march 2017), Ahmadabad.
        Infinium Solution private limited (march2017 – June 2017), Ahmadabad.
Projects during the training and internship are
        Advance Kid education system (**IOT** BASED)
        Environment monitoring system based on IOT Includes camera
        RTLS (Real time location system) (**BLE** BASED/ IOT)

TECHNICAL SKILLS
ML Algorithms || Predictive Analysis || Deep learning || Data Visualization || Data Analytics || Data Mining||Model Development || IOT Programing || AZure DevOps

Programming Languages: Python,Embedded C , Basics of **R**,HTML,Terraform,yaml
Frameworks:Opencv,Scikit-Learn,tensorflow,Keras,pytorch,**Pandas,H2o,Mlflow**,MLops,**Driverlessai**,Apache-Kafka,Matplotlib,Airflow
Visualization Tool/Web Technologies: Dash , **Matplotlib** ,**plotly**,seaborn,MapBox,HTML
Database: Redis,**MySQl, MSSQl,PostgreSQL,DEEP**
Cloud Technologies: **Azure**,kubernetes,**DataBricks**,AWS
Controller/processor: Linkit duo/ Linkit(Mediatech),Arduino,Raspberry pi,ESP32,STM32
Protocols:ftp,MQTT,UART,GATT,GAP,SPI,I2C , Modbus
Currently learning quantum machine learning from Qiskit

ACADEMIC PROJECTS

Digital voting machine using PIC microcontroller

ACHIEVEMENTS & PARTICIPATION

Participated in 'Innovative Project Fair' in the event named "**Vibrant Science Summit-2016**".

Covid-19 Analysis and prediction project is appreciated by the Indore Government.

Certification

Python for everybody specialization - Coursera

Deep learning specialization -Coursera

Natural Language Processing with Classification and Vector Spaces -Coursera

Version Control with Git -Coursera

PERSONAL INFORMATION

Language Known	: English,Hindi, Gujarati
Address	**:** 71/Kailashpuri society, Nr. gayatri society, **S**aijpur, Naroda road, Ahmedabad,Gujarat-382345
Hobbies	:Watching News, Listening Podcast, Bodybuilding

EDUCATION QUALIFICATION

Bachelors of engineering: Electronics and Communication, 2017

L.D college of Engineering(Gujarat Technological University) ,Ahmedabad,Gujarat.

7.98CGPA

HSC,Sahajananda Vidhyalaya(GHSEB),2013,Ahmadabad.

71.6%

SSC, Bhavana Vidhyalaya(GSEB),2011,Ahmadabad.

83.6%

AHMEDABAD, GUJARAT

DATE: ___/___/_____.

(PRAGNESH PRAJAPATI)