HARSHAL GARG

CONTACT

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SKILLS

Power BI Advanced, AWS Basics

Machine Learning - Sklearn, MatplotLib, Seaborn

Deep Learning - TensorFlow, CNN, NLP

Python - Pandas, NumPy

Basics - Java, SQL, SAP HANA CVs, Matlab

Agile Methodology

CERTIFICATION

Deep Learning - Coursera by DeepLearning.ai – Credentials

Stanford Machine Learning - Coursera by Andrew Ng – Credentials

AWS Certified Cloud Practitioner – Credentials

Matlab Onramp – Credentials

WORK EXPERIENCE

Infosys Limited - Senior Systems Engineer
JAN 2021 – Current

Data Migration and Report Recreation (ongoing)

- Migration of database from On-premise **SAP BW** to **AWS Redshift**.
- I decided **architecture**, created **mapping documents** of the new vs old databases' attributes. I created the table and inserted the data in the new tables.
- I decided architecture, built, and deployed reports which will be built on **Power BI** and connected them to the new database.
- I worked on **AWS Glue Job** using **python** to generate required outputs like HTML files by ingesting data from **AWS S3** and **Redshift**.

Infosys Limited - Systems Engineer
APRIL 2019 – DEC 2020

BW Monitoring and Support

- I monitored process chains of 4 systems in **SAP BW**.
- I had to reschedule data transfers jobs based on time, load, or any other business requirement.
- I used to monitor ticket in Service Now

Data Migration and Report Creation

- I designed and built Graphical Calculation Views in **SAP HANA.**
- These views were then imported to **Power BI** to make reports.
- I created the reports which included making a **data model**, different type of **visuals**, **DAX Queries**, **time intelligence function** and deploying the reports on Power BI web.

Infosys Limited - Systems Engineer Trainee
NOV 2018 – APRIL 2019

Completed Infosys Foundation Program

- Generic Training - Python, SQL
- Stream Training - Power BI, MongoDB, Java, pig, hive, HBase, MSSQL

EDUCATION

B.E. - Electrical and Electronics
2014 - 2018
UIT RGPV, Bhopal

PROJECTS

Dog Breed Identification – CNN (link)

- Using Kaggle dataset to create a dog breed identifier based on an image.
- I used **Transfer Learning** by using a **pretrained Keras model**.
- I trained every model on a small dataset to find the best one and then **NASNetMobile** model was chosen based on **accuracy** and **parameter count**.
- I created **callbacks** to **create logs** and to prevent the model from **overfitting.**
- The model was **trained** on the full dataset and saved as a **'.h5'** file which was used to make **predictions**.

Bulldozer Price Prediction - Random Forest (link)

- Given the data of previous sales prices of bulldozers, we are trying to predict the sales price of the bulldozers which have similar characteristics.
- I first analyzed the data to find **missing values** and the **most important features**.
- I filled the missing values and made compatible the data was for modelling.
- I choose **RandomForestRegressor** based on Sklearn Algorithm Cheat Sheet
- After hyperparameter tuning, I finalized the model, trained and tested it.