Mohommad Najeed Osmani

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MachineHack Master (Global Rank-52)

Extremely motivated Data Scientist who is very much into building the models that translate the data points in to the Business Solutions.

WORK EXPERIENCE:

Data Scientist Trainee

Celebal Technologies

05/2019 - Present *Jaipur India*

Achievements/Tasks

- Modelling Natural Language processing Models like Text Classifiers and Intent Based Models(Name Entity Recognition).Using Dimensional Reduction Techniques to Data Complexity and make solutions for NLP models where data is extremely Low.

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Data Scientist Intern

Celebal Technologies

01/2021 -04/2021 *Jaipur India*

Achievements/Tasks

- Building Machine Learning Models for customer Churn Predictions. Using Good Feature engineering techniques and Better Feature Selection techniques by applying Statistical Tests.

Freelancer

Data Science

06/2020 - 12/ 2020 Karimnagar, Telangana

- Worked as Freelance Data Scientist, worked on Classical ML Projects Like Customer Churn Prediction, Customer Segmentation, Web Scrapping etc.

EDUCATION:

Bachelor's in Mechanical Engineering

Jawaharlal Nehru Technological University, Jagityal

2017 - 2021, *6.6 CGPA*

Senior Secondary Education

Sri Gayatri Jr. College, Hyderabad

2015 - 2017 *94%*

SKILLS:

- **Proficient** in **Python** Programming language, **familiar** with **Java** programming language.
- **Data Analysis:** Familiar with libraries like Numpy, Pandas for data analysis.
- **Data Visualisation:** Familiar with libraries like Matplotlib, seaborn and Plotly for data visualization.
- **Classical Machine Learning(ML):** Building Machine Learning Models and applying Statistical Techniques, Feature Decomposition etc.
- **Natural Language processing(NLP):** Building Tf-Idf Models, reducing dimensions on sparse matrices, applying RNN Architectures and Transformers(Keras, Pytorch).
- **AzureML services, Language Understanding Model(LUIS), NLTK, Azure Blob Storage, Azure Virtual Machine(VM).**

ACHIVEMENTS:

Partcipating actively in Hackathons.

- Currently working on making a **Auto Feature Engineering** tool, and would be making an open source contribution.
- **Runner up(Rank 2)** in Buyer's time prediction, MachineHack, 2021.
- Been in **top 10 participants** for 3 times**.**
- **Ranked 52** globally on MachineHack competitive platforms.
- **Top 1%** in more than **35 hackathons**.
- **Experience over 55+** online hackathons on platforms like Analytics Vidhya, HackerEarth, MachineHack, etc.

WORK PROJECTS

Resume Filtering System:

- Created a Product where it takes in all the resumes and filters it according to the user's query.
- Used **Azure Blob Storage** to store the resumes.
- Used **parsing libraries** to convert the pdf format files to python strings and used **keyword matching** to cut sections of the resume.
- Using Intent based models to extract words of interest and saved the **JSON files** on to the Azure storage.
- Using **Recommender systems** to filter and recommend the relevant resumes to the users.

Customer Call Auditing:

- Using **Azure speech-to-text** services to convert an audio file format to a textual file format.
- Tagging **outputs type,subtype** classification and making a Text Classifier on it.
- Making a **Text Classifier** that identifies the type of policy calls.

Churn Prediction:

- Building Data preprocessing pipelines that organizes the data with respect to each customer and making target variable with respect to client's requirements.
- Performing **Exploratory Data Analysis(EDA)** and looking for **feature dependencies** with the target variable.
- Using **ANOVA Test** and calculating **F-statistic** to see **feature importance**.
- **Predicting probabilities** for each customer's **churn**.
- **Validating Probabilities** with Inferences and **Calibration of probabilities.**

Car Price Prediction:

- This was an end to end project which was deployed on **Heroku** services (platform as a service).
- Collected data from **Kaggle** and made **multiple models** related to individual car company.
- Used **Mean Encoding** to input **null values** and used good **feature engineering** techniques to **improve** model performance.

Acne Classifier

- **Scraped Images** for different **kind of acnes** that a person can have upon his face from the internet .
- Grouping them into major categories and building an Image Classifier using **VGG-16** and **ResNet models.**
- **Recommending preventions** and **precautions** to the user with respect to the **predicted category** of **Acne**.