Sajal Suhane

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Summary

Graduate student with a year of experience in analysing structured and unstructured data using Statistical Analysis, and Predictive Modelling techniques. Expertise in languages like Python, and SQL.

Education

The University of Texas at Dallas, USA — May, 2023 (Expected)
Master of Science in Computer Science, (Concentration in Data Science)
Relevant Coursework: Statistics of Data Science, Natural Language Processing, and Data Representations

Savitribai Phule Pune University, India — May 2020
Bachelor of Engineering in Computer Engineering — GPA 3.80/4

Skills and Expertise

Programming Languages:	Python, R, SQL, PL/SQL, C, C++, JAVA, XML
Big Data & Analytics Tools:	Hadoop (HDFS, MapReduce, Kafka, Hive), Tableau, Power BI
Data Science Libraries:	Python (Pandas, Scikit Learn, TensorFlow, Keras)
Data Science:	Regression, Classification, Neural Networks, Time Series Analytics
Databases:	MySQL, PostgreSQL
Other IDE and Tools:	RStudio, Jupyter, Eclipse, Advanced Excel (Pivot Tables, VLOOKUP), Microsoft Office

Professional Experience

Assistant Systems Engineer, (*Developer – Digitate*) — November 2020 – July 2021
Tata Consultancy Services, India

- Developed ignio's capabilities and enhancements reducing overall MTTR by 7000 hours/month across 100+ clients
- Completed Architecture & Security Review for different UK/EU based clients and deployed ignio successfully in their environment(s)
- Developed AI based algorithm(s) for autonomous actions that saved 9000+ human hours/year worldwide (~50% time to deploy ignio)

Intern, (*Machine Learning*) — September 2019 – October 2019
Brabo Robotics Automation Ltd., India

- Created prediction models using Machine Learning to predict which drive might fail in near future and to take proactive actions in turn saving 50000+USD in just inline machinery
- Modelled problem of auto predicting and scheduling jobs as:
- Regression, achieved a R-squared of 95% using Deep Neural Networks
- Classification, achieved an accuracy of ~94% on a Real time Six-Drive Robot dataset using an Ensemble classifier
- Worked on extracting data from diverse data streams, transforming and integrating data as per the requirement, creating interactive visualizations, dashboards and developing informative metrics
- *Research paper: https://www.ijeat.org/wp-content/uploads/papers/v9i3/C5342029320.pdf*

Projects

Household Power Consumption Predictor, (Machine Learning) — November 2018

- Built a prediction model to optimize your electricity bill based on last one year power usage stats
- Used Python for cleaning and transforming data of ~100k records for 2 years (every minute), performing exploratory data analysis, building a Naïve Bayes model using several numerical variables and evaluating it
- Optimization suggests the time frame where you can use high power consuming devices to save electricity

Audio Sentiment Analysis, (Machine Learning) — August 2020

- Built a prediction model to classify sentiment of an audio in real time, using Python for cleaning and transforming voice data of ~41,000 people
- Created a Neural Network based classification model using several categorical and numerical variables and finally evaluating it based on keywords used in the audio stream

Hands-on experiences in Statistical Modelling, and Machine Learning — 2018 - 2021

- Built several mini projects focusing on key concepts in Statistics and Machine Learning such as Hypothesis Testing, Linear Regression and building a Neural Network from scratch, etc. using Python
- Analysed a stream of news coming from all over the world and classifying into Real and Fake news based on labelled data with accuracy of 88%
- Real time face detection using Convolutional Neural Network and classify the person's expressions
- *Current Project:* Stock price prediction using moving averages and previous trend of the stock taking in account news about the stock