

Sajal Suhane

M: +1(469) 922 9416 | Email: sxs190373@utdallas.edu | LinkedIn: <https://www.linkedin.com/in/sajalsuhane> |

Website: <https://sajalsuhane.github.io> | Apt 223, 601 W. Renner Rd. Richardson, TX 75080

Summary

- An aspiring Data Scientist 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.
- Worked as a Developer at Digitate for 9+ months, leveraged Automation and Machine Learning techniques used in ignio which enhanced outputs of the software, and annual cost savings of 84,000+ human hours across all clients.
- Interned at Brabo Robotics Automation Ltd., Pune deploying Regression and Classification models in the 6-drive robots predicting drive failure, and thus resulting in increased operational efficiency, cost savings of 50,000+ USD.

Education

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|------------------------------------|---------------------------------------|----------------------|--------|
| University of Texas at Dallas, USA | MS in Computer Science (Data Science) | Aug 2021 - Appearing | - - |
| Pune University, India | BE in Computer Engineering | Aug 2016 - May 2020 | 3.80/4 |

Skills and Expertise

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

Professional Experience

Assistant Systems Engineer, Tata Consultancy Services, India (Developer – Digitate) Nov 2020 – Jul 2021

- Worked on ignio's development and enhancements reducing overall MTTR by 7000 hours/month across 100+ clients worldwide.
- 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, Brabo Robotics Automation Ltd., India (Machine Learning) Sept 2019 – Oct 2019

- 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 this 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>

Academic Projects

Household Power Consumption Predictor, (Machine Learning) 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 finally evaluating it.
- Optimization suggests the time frame where you can use high power consuming devices to save electricity.

Audio Sentiment Analysis, (Machine Learning) 2020

- Built a prediction model to classify sentiment of an audio in real time.
- Used Python for cleaning and transforming voice data of ~41,000 people, building 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 based on dataset.
- Current Project: Stock price prediction using moving averages and previous trend of the stock taking in account news about the stock.