**VENKATA SAI KRISHNA ABBARAJU**

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**EDUCATION**

2015-2019 **SRM Institute of Science and Technology,** Chennai, Tamil Nadu, India

***Bachelor of Technology;*** ***Computer Science***

● GPA: 8.72/10

● Relevant Courses: Artificial Intelligence, Probability and Statistics, Linear Algebra, Advanced Calculus, Programming in Python, Data Structures.

**Major Project: Distracted driver image classification, (**[**Link**](https://github.com/avsk80/Driver_Distraction_Classification)**) (Led a Team of 4)**

● Measures the distraction level of a driver and classifies the type of it based on an image feed.

● The trained CNN model resulted in classifying 93% of the images correctly.

**WORK EXPERIENCE AND PROJECTS**

2020-Present **Lowe’s India,** Bengaluru, Karnataka, India, *Data Engineer*

**Project: Competitive Intelligence, (Team of 3)**

● Scraped competitor’s websites to gather information on items and stored in Hadoop to build KPIs that drive a dashboard.

● Played a vital role in architecting the data-pipelines and automating them which reduced Analyst’s workload by around 45% weekly.

● This project helped pricing analysts to understand their competitors and make data-driven decisions to adjust prices of Lowe’s items based on competitor’s store location and prices.

● Involved in migrating the data-pipelines from Hadoop 2.0 cluster to Hadoop 3.0 as part of major version upgrade.

● Technologies: Python, PySpark-SQL API, Streaming API, Hive, Snowflake, MicroStrategy.

2019- 2020 **Lowe’s India,** Bengaluru, Karnataka, India, *Associate Data Engineer*

**Project: Promo Measurement, (Team of 6)**

● Responsible for data ingestion, from several transactional data stores, files and transformed the data to build metrics that power a MicroStrategy dashboard.

● Explored Druid-Superset Integration (average query response in 5 seconds) as an alternative to MicroStrategy visualization tool (average query response in 20 seconds), to overcome query response time issue.

**Project: Promo Forecasting, (Team of 4)**

● Collaborated with data scientists in cleansing and processing the promo data to be fit enough to train ARIMA model to predict sales and units. The model was able to predict with 53% accuracy.

● Exposed a Node.js API to a React.js based front-end which displays the forecasted values.

● Technologies: Sqoop, Hive, PySpark-Core, SQL, Node.js, Druid, Superset, MicroStrategy.

**OTHERS**

● Technical Skills: Python, Java, Hive, Shell scripting, PySpark, Oozie, MySQL, GCP- BigQuery,

numpy, pandas, sklearn, seaborn, keras, tensorflow, data modelling, Flask.

● Certifications**:** [Machine Learning](https://academy.ineuron.ai/certificates/downloads/ML004129.pdf), [Python](https://academy.ineuron.ai/certificates/downloads/PY002365.pdf), [Power BI](https://academy.ineuron.ai/certificates/downloads/PB005308.pdf), [Data Science Architecture](https://academy.ineuron.ai/certificates/downloads/DR001937.pdf), [Statistics](https://academy.ineuron.ai/certificates/downloads/ST001465.pdf).

● Publication**(**[**Link**](https://www.jardcs.org/abstract.php?id=606)**):** Published a paper in JARDS (Title: “Predicting methodology for driver distraction

in IVIS using ANN”)

● Awards**:** “SPOT” in Competitive Intelligence project, “Team excellence” in Promo Forecasting.

● Part of college cricket team, supported an orphan centre in terms of education during the pandemic.