**VENKATA SAI KRISHNA ABBARAJU**

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**EDUCATION**

**SRM Institute of Science and Technology** **Chennai, India**

Bachelor of TechnologyMay-2019

Department of Computer Science and Engineering  GPA: 8.72/10

**SKILLS**

Python, Java, Shell scripting**,** MySQL, Cassandra, GCP- BigQuery, Hive, Spark Core, Spark SQL, Spark Streaming, Sqoop, Hbase, Oozie, Power BI, Superset (presto, druid integration), numpy, pandas, sklearn, matplotlib, seaborn, keras, tensorflow, problem-solving, data modelling, DevOps, retail domain knowledge.

**RELEVANT COURSES**

Artificial Intelligence, Machine Learning, Deep Learning, Discrete Mathematics, Probability and Statistics, Linear Algebra, Advanced Calculus, Programming in Python, Data Structures.

**RELEVANT WORK EXPERIENCE AND PROJECTS**

**Competitive Intelligence,** *Data Engineer* **Lowe’s** (*Dec 2020 – present)*

* The objective is to provide the pricing analysts with the competitor's data to make data-driven decisions on varying prices of Lowe's items based on its competitor's store location and price.
* Played a vital role in setting up the crawling systems, architecting and automating the data pipelines, and modeling the data.
* Explored cutting edge technologies by actively participating in Druid, Presto, Superset integration. Achieved three folds faster query response in comparison to MiscroStrategy.
* Technologies: Python, HiveQL, PySpark, Oozie, Snowflake, GCP, MicroStrategy (visualization tool).

**Promo Measurement,** *Associate Data Engineer* **Lowe’s** (*Nov 2019 – Dec 2020)*

* Collected huge datasets from diversified data sources and transformed it to be fit for analysis purpose.
* Automation of the data-pipelines helped to reduce the analyst’s workload by around 45% weekly.
* Technologies: HiveQL, PySpark, Oozie, MicroStrategy (visualization tool).

**Promo Forecasting,** *Associate Data Engineer* **Lowe’s** (*Nov 2019 – Dec 2020)*

* Contributed significantly by writing analytical SQL logic and collaborated with data scientists to train ARIMA modeland exposed an API that serves a React.js-based front-end to display the predicted sales and units sold.
* Overall, the model was 67% accurate but varied for different product group of items. This data-driven approach helped promo analysts to understand the impact of a promotion before it is rolled out in the market.
* Technologies: HiveQL, PySpark, Oozie, Node.js (backend), React.js (frontend).

**Distracted driver image classification (**[Link](https://github.com/avsk80/Driver_Distraction_Evaluation)**),** *Student* **Academic** (*Jan 2019 – March 2019*)

* Measures the distraction level of a driver and classifies the type of distraction based on an image input. The trained neural network model resulted in classifying 93% of the images correctly.
* Led a team of 4 and developed the algorithm, tuned the model alongside writing a thesis paper that proposes a solution in theory to address accidents caused by drivers distracted due to alcohol consumption.
* Technologies/ Libraries: Python, Keras, Tensorflow.

**OTHERS**

* Participated in college cricket team and cleaning activities, supported the destitute in terms of education and finance during the pandemic.
* Certified in [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).
* **Research publication (**[**Link**](https://www.jardcs.org/abstract.php?id=606)**):** Published a paper in JARDS and also presented it at an international conference organized by OSIET. (Title: “Predicting methodology for driver distraction in IVIS using ANN”).
* **Awards: 1)** “SPOT” for timely delivery of Competitive Intelligence product during a stringent deadline.

**2)** “Team excellence” during my work in Promo Forecast for a collective team effort.