

# ABHISHEK SINGH

Data Analyst - Product Performance,

General Electric Transportation – A Wabtec Company

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## Profile Summary:

In my current role, my job is to understand the data and data sources, preprocess and make use of the data to get useful insights out of it and present it to the respective stakeholders.

## Technical Skills:

**Programming** – Python (Scikit Learn, Pandas, Numpy, Matplotlib)

**Database** – Oracle, SQL Server

**BI Tools** – Qlikview (Reporting and ETL)

**Developing Environments** – Jupyter Notebook, PyCharm

**Have idea of or basic knowledge** – Core Java, HTML, JavaScript, R, Tableau

## Total Experience (5 Years 9 Months):

2018 – Till Date – GE Transportation – A Wabtec Company,

Data Analyst - Product Performance. (2 Years 4 Month)

### Dashboard Creation (Qlikview, Oracle DB, SQL Server, Excel)

Developed Qlik Dashboards for aggregating and showing data in proper format which is easily accessible, also moved existing excel reports to Qlik Access Point which reduced day today manual work to create and distribute the reports to respective stakeholders.

### Automation of Existing process (Python, Qlikview, chi<sup>2</sup> Test)

Automated a pre-existing data collection process which used to take full day just to collect data and then make reports. For this I used Python Scripts which generates an Oracle query which is fed to Qlik which runs the Query and generate reports which the managers can easily access via web browser.

### Rule Base Modeling (Python, Scikit Learn, Jupyter, Pandas, Regression)

Created a Ranking Model to rank various trips taken by the Locos for testing how are the latest trips compared to older trips. For this we used Regression for feature selection and then we created KPI based on those features in order to rank trips.

Also, we use **clustering (MeanShift)** to cluster regions for the ranking model in order to eliminate areas with a smaller number of data points.

### Displaying Live coordinates on Google maps (Python, Google Map API, Excel, HTML, JavaScript)

Created a web app which run on individual PC (not on server) which displays live coordinate of loco running on tracks which helped team to monitor the position of the locos live instead of downloading the data repeatedly and then plotting using GPS plotter.

**2014 – 2018 – Infosys Limited,  
Senior Systems Engineer. (3 Years 5 Month)**

#### **Reporting and ETL – (Qlikview + SQL)**

Developed Qlik Dashboards/Reports for many global clients, apart from Qlik developer my role was also as a solution provider for the clients as to get requirements from the clients and convert their business logic into SQL or Qlik scripts to provide them with right data in right format. Also was part of developing an ETL solution for the client using Qlikview to save further cost and time.

#### **Time Series Forecasting (Python, Pandas, Scikit Learn, Tree Based Models, Ensemble)**

Developed a time series model to forecast demand of hourly electrical load, used multiple models to forecast the load after separating the data based on seasonality and used ensemble to make the final prediction.

#### **Modeling POC's**

- . used Mean Shift and K-Means Clustering to Segment Images, which we can use to edit our images.
- . used NLTK and Tensorflow to develop a Sentiment Analysis algorithm which can tell if the movie review is positive or negative. Used the same algorithm to categorize the stream of tweets in real time using tweepy.
- . developed a Flask based number recognition web app using MNIST dataset.

#### **Java JavaScript base Web App**

Created Java base web application to integrate BI Reports from Multiple BI tools like Tableau, Qlikview to show in common place. In this JavaScript and HTML part was done by me. The Application was shown at International Infosys Conference.

#### **Education:**

**B-Tech (UPTU): Electronics and Instrumentation Engineering**

**Intermediate, 12<sup>th</sup> (CBSE): PCM, 75.4%**

**High School, 10<sup>th</sup> (CBSE): 82.6%**

#### **Strengths:**

- . Good understanding of EDA, Data Mining, Data Manipulation, Data Visualization.
- . Able to work independently on problems to develop solution.
- . Good at solving analytical and reasoning problems.
- . Knowledge of Various programming Languages so if in need can take up or help in task outside regular work.

#### **Accomplishments and Hobbies:**

- . Write technical blogs, the links you can find at <https://abeeweeda.github.io/>.
- . Received multiple awards, **2 insta awards** in Infosys and **2 impact awards** in GE for good and effective solutions.
- . Gate Qualified (Rank 370), BARC Exam Qualified.
- . Participated in many voluntary activities both at college and professional level.
- . Hobbies include sketching, running, reading about science and history.