Manmohan Singh

Senior Data Analyst
Business Intelligence and Data Analytics

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EXPERIENCE

Senior Data Analyst, Landis + Gyr — Noida, India

January 2019 - Present

Worked on investigative outage report on multiple electric utility, EDA and recommendation on sentiment analysis of customer survey of multiple ELectric Utility, prepared 360 degree meter health dashboard on tableau for Electric Utility.

Senior Data Developer, Dunnhumby — Gurugram, India

January 2017 – January 2019

Worked on developing customer segmentation and customer profiling for Retail client customers. Prepare reports on customer buying habits and purchasing power.

System Engineer, Infosys — Bengaluru, India

July 2014 - December 2016

Worked on developing python applications and financial reports for financial Bank. Report generated based on online transaction health.

EDUCATION

**B.E. (Electrical and Electronics Engineering),
Sapthagiri College of Engineering, Bangalore**

July 2010 - July 2014

AREAS OF EXPERTISE

Programming Skills
Python, SQL, PySpark

Data Visulization
Tableau, Matplotlib, Dash, Seaborn, Plotly

Machine Learning Libraries
TensorFlow, PyTorch, Scikit-learn, Scipy, NumPy, NLTK, TextBlob, Transformers

Data Mining and Data Analysis
Scikit-learn, SQL, Pandas, Numpy

Development Tools
GIT, Pycharm, Sublime, Jupyter

Domain Expertise
Smart Meters, Retail, Finance

Cloud Services
GCP, Private cloud

CAPABILITY SUMMARY

- Investigate and provide a recommendation on the outage issue. Provides reports and data analysis using tableau on this issue.
- Perform exploratory data analysis on customer survey data. Prepare a report based on survey data and represent those findings to stakeholders.
- Developed and deployed an Electric Energy power consumption prediction model for an Electric Utility.
- Excellent technical and analytical skills with a clear understanding of the Data science ETL process and project architecture.
- Writing articles about NLP, Python, and Data Science topics on Medium

PROJECTS

PROJECT NAME: Investigative report on outage due to Manufacturing issue.

Project brief: The objective of this project is to investigate the reason for the outage in a certain location. We have started with exploratory data analysis on sample data. Then creates different business scenarios and build an algorithm based on it. We have presented our analysis and solution in the tableau.

Technology and tools used:
    - Pandas, Matplotlib, Data mining, Data Wrangling, SQL, Tableau

Role: Data Analytics

Contribution:
- o Exploratory data analysis on sample data
- o Using pandas to segregate meters into different groups
- o Use of Data visualization to explore and find a pattern in data.

PROJECT NAME: Customer profiling and segmentation for Retail clients

Project brief: The project started with the data cleaning and data mining process. Then, we group the users with their spending per visit, month, and year. Also, we segregate the user based on their shopping location. And finally, we divide the users into multiple spending groups. We also create a loyal customer profile based on different shopping criteria.

Technology and tools used:
    - Pandas, Matplotlib, Data mining, Data Wrangling, SQL

Role: Data Analytics

Contribution:
- o Data cleaning and mining process.
- o Using pandas to segregate user into groups
- o Use of Data visualization to explore and find a pattern in data.

PROJECT NAME: Dashboard and Custom report for Electric Utility.

Project brief: Generate reports such as outage per day, meter health per region, voltage fluctuation, current fluctuation, the number of smart meters failed to send reads per day, etc. in Tableau dashboard. Generate one-time custom reports as per utility requirements. Automate the process of sending reports via email.

Technology and tools used:
    -Tableau, Pandas, SQL, Smtplib, pyodbc

Role: Data Analytics

Contribution:
- o Perform Data manipulation, data wrangling, and data cleaning.
- o Save reports in the MySql data warehouse.
- o Make a MySql connection with Tableau and create sheets and Dashboards.

- Publish your dashboard and provide a link for views on the dashboard.
- Send reports via e-mail using the smtlib library.

PROJECT NAME: EDA and recommendation on Sentiment analysis of customer surveys

Project brief: The main objective of this project is to find out why customer satisfaction is decreasing. We have started the project with a data cleaning and data mining process. Perform EDA on survey data. Find the area of improvement and given the suggestion.

Technology and tools used:
- Pandas, Scikit-learn, regex, Tableau

Role: Data Analytics

Contribution:
- Data cleaning and data mining.
- EDA on survey data
- Present the outcome and suggestion to stakeholders

PROJECT NAME: Detect and find the abnormality in Electric consumption

Project brief: The objective of this project is to investigate the reason for the abnormality in electric consumption by Utility customers. We have started with exploratory data analysis on sample data. Then creates different business scenarios and build an algorithm based on it. We have presented our analysis and solution in the tableau.

Technology and tools used:
- Pandas, Matplotlib, Data mining, Data Wrangling, SQL, Tableau

Role: Data Analytics

Contribution:
- Exploratory data analysis on sample data
- Using pandas to segregate meters into different groups
- Use of Data visualization to explore and find a pattern in data.

PROJECT NAME: Writing Articles about Python and Data Science topics on Medium

Project brief: The contents of these articles are based on Natural Language Processing (NLP), Data Science, and Data Analysis methods.

Medium Link:

https://medium.com/@Manmohan24nov