

Due to their open source of datasets and ease of using them

1.2 Enterprise Data

1.2.1 Technology Choice

Github repository.

1.2.2 Justification

First choice for any technical member because it is up-to-date features will be available.

1.3 Streaming analytics

1.3.1 Technology Choice

None

1.3.2 Justification

1.4 Data Integration

1.4.1 Technology Choice

None

1.4.2 Justification

None

1.5 Data Repository

1.5.1 Technology Choice

None

1.5.2 Justification

None

1.6 Discovery and Exploration

1.6.1 Technology Choice

Language – Python3

Matplotlib and Seaborn used for data visualization

Pandas for data analysis

Scikit and keras to build models

1.6.2 Justification

They are the best choice.

1.7 Actionable Insights

1.7.1 Technology Choice

Language – Python3

Matplotlib and Seaborn used for data visualization

Pandas for data analysis

Scikit and keras to build models

1.7.2 Justification

To understand the Correlating features a white-box model was required. Tree based algorithms were identified as a good match. Thus Light-GBM was used.

Neural network based algorithm was used as a reference for the Tree based model. Easiest and Fastest implementation is possible in keras. Tensorflow is the backend.

1.8 Applications / Data Products

1.8.1 Technology Choice

Jupyter – python notebook

1.8.2 Justification

Please justify your technology choices here.

1.9 Security, Information Governance and Systems Management

1.9.1 Technology Choice

None

1.9.2 Justification

None