

## **Motivation**

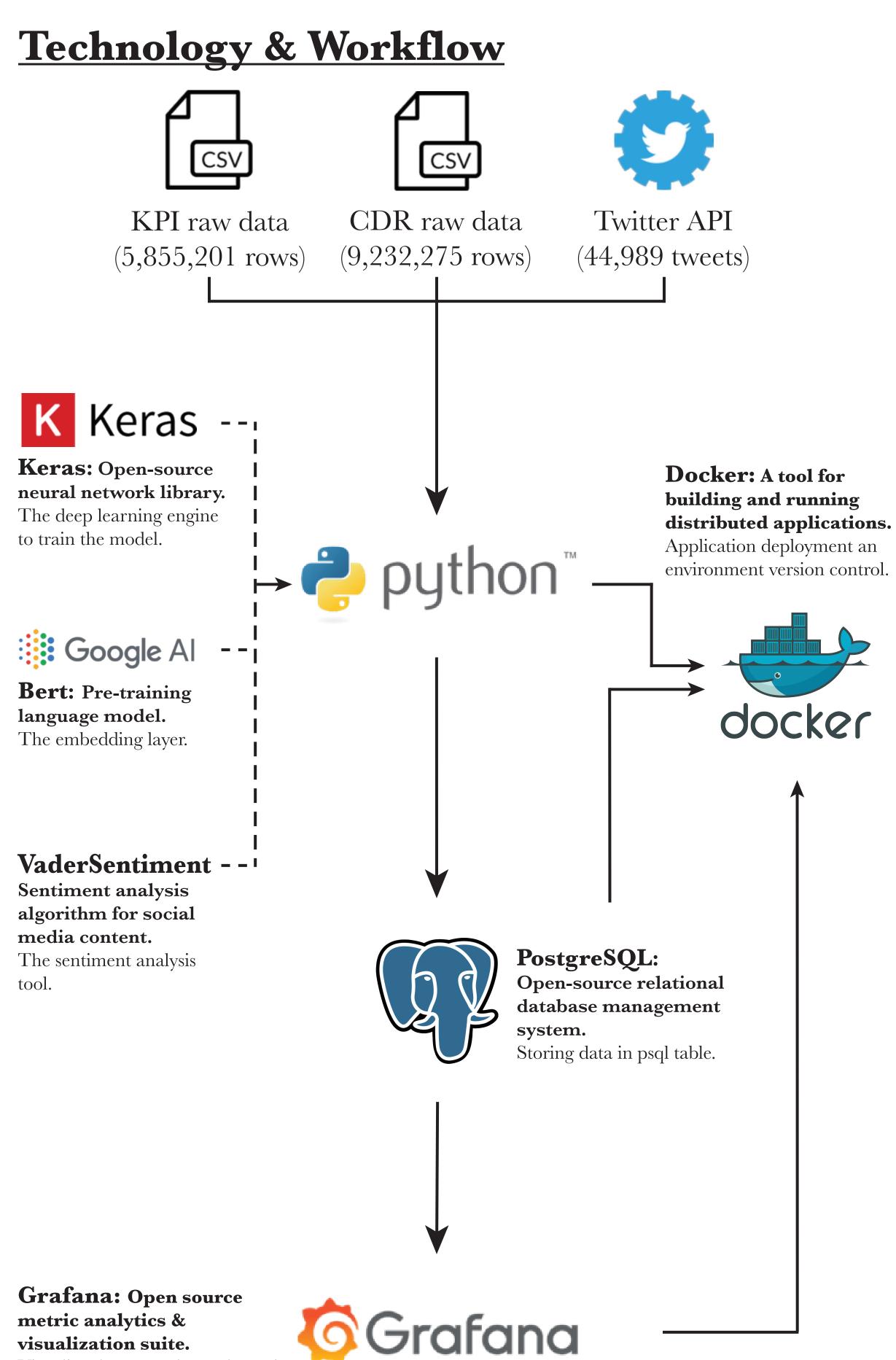
Visualize the anomaly results and

twitter sentiment analysis result.

As telecommunication companies seek to improve network coverage and maintain customer satisfaction, they need to constantly monitor customer complaints and the status of their networks.

This project, in collaboration with Tupl Inc. seeks to reduce the latency between the time a network coverage area experiences issues and when the network operator notices these issues. Deep learning models process several types of telecom data to predict which data are anomalies.

- Call detail records (CDR) data from customer complaints determines if customers have recurrent cellular issues.
- Key performance indicators (KPI) data determines which base stations are down at a given time.
- Twitter tweets identify customers' dissatisfaction on social media that isn't directly reported to the company.



Faculty Advisor: Payman Arabshahi

