

Automated Social Media Data Ingestion Pipeline

DSCI-6007-01

Team 1

OUR TEAM

Hima Sai Kuruba

Data visualization and
Story Telling

Srikanth Thota

Data processing and data handling

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Team leader and data source arrangements

BUSINESS PROBLEM 🔍



We are the data engineering team of a marketing company which looks after the brand images of large companies. Pfizer, a large pharmaceutical company, wants to know how positively people think about them. So, our company has the task to determine how people think about them and doing what actions causes the users to think positively or negatively. Our company has a team of data scientists whose work is to do modelling and predictions. We as data engineers, will only focus on the part of data gathering, ingestion, storage, processing and visualization. Doing so we as data engineers are also focusing on data's excellence, reliability, security , efficiency, cost-optimization and sustainability.

OUR PROPOSED SOLUTION

**A robust data engineering pipeline
that takes in the data from the API
to securely store and process the
data**

**Analyze the data to provide insights
to the company about the positives
and negatives about the opinion of
people towards the company**

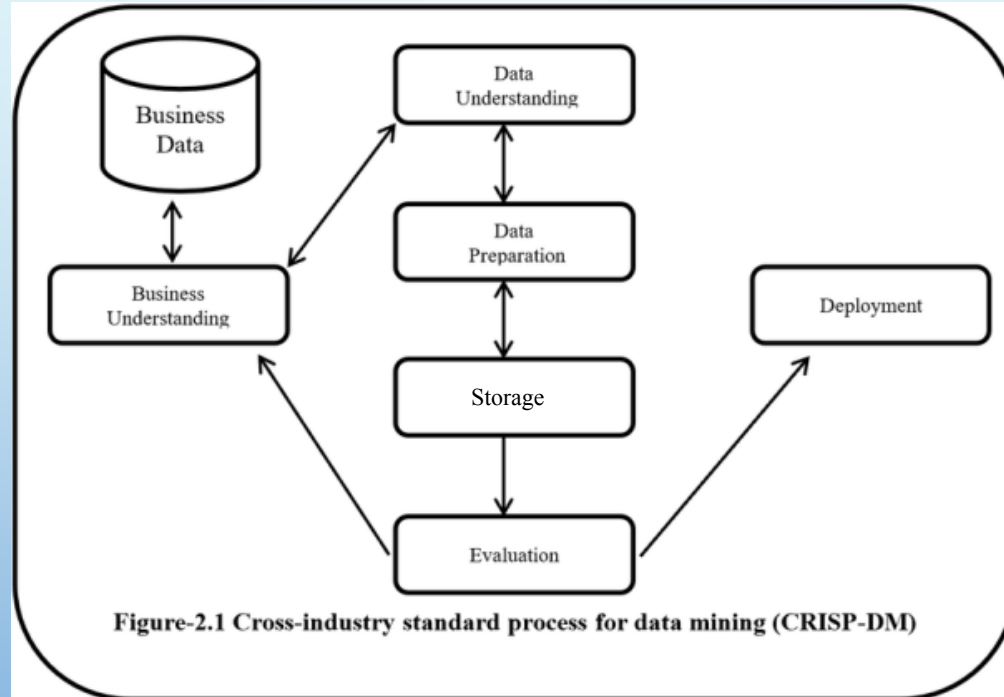
DATA SOURCE



X API

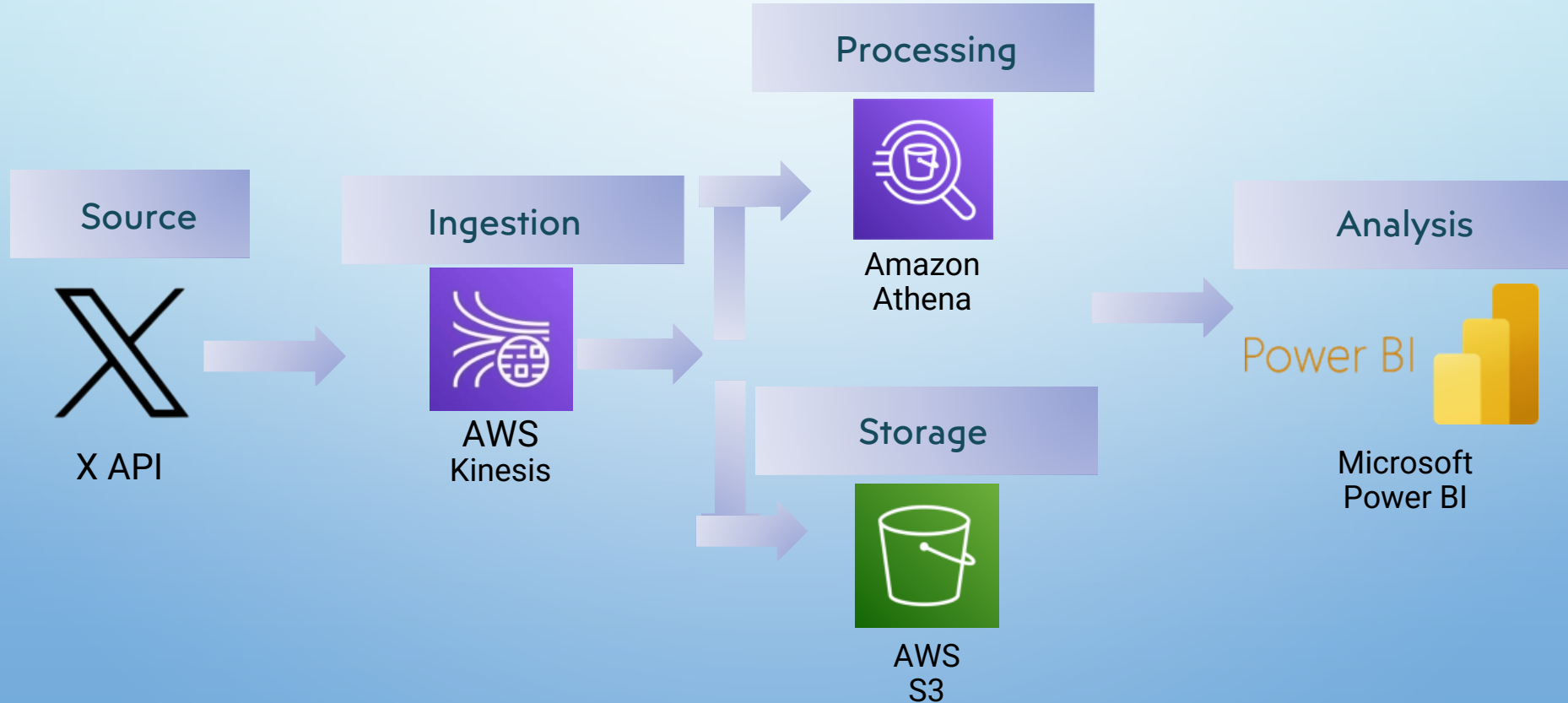
<https://developer.twitter.com/en/portal/dashboard>

CRISP – DM METHODOLOGY



Source: data-science-blog.com

TOOLS AND FLOW OF PROJECT



SUMMARY AND RECAP

- ❖ Our team has been tasked to prepare a robust data engineering pipeline for brand image analysis.
- ❖ We have got the X API as the data source and we have decided to use AWS tools like Kinesis, Athena and S3 along with Power BI for data analysis.
- ❖ All our team members have been assigned specific roles which will be followed to achieve the desired results.