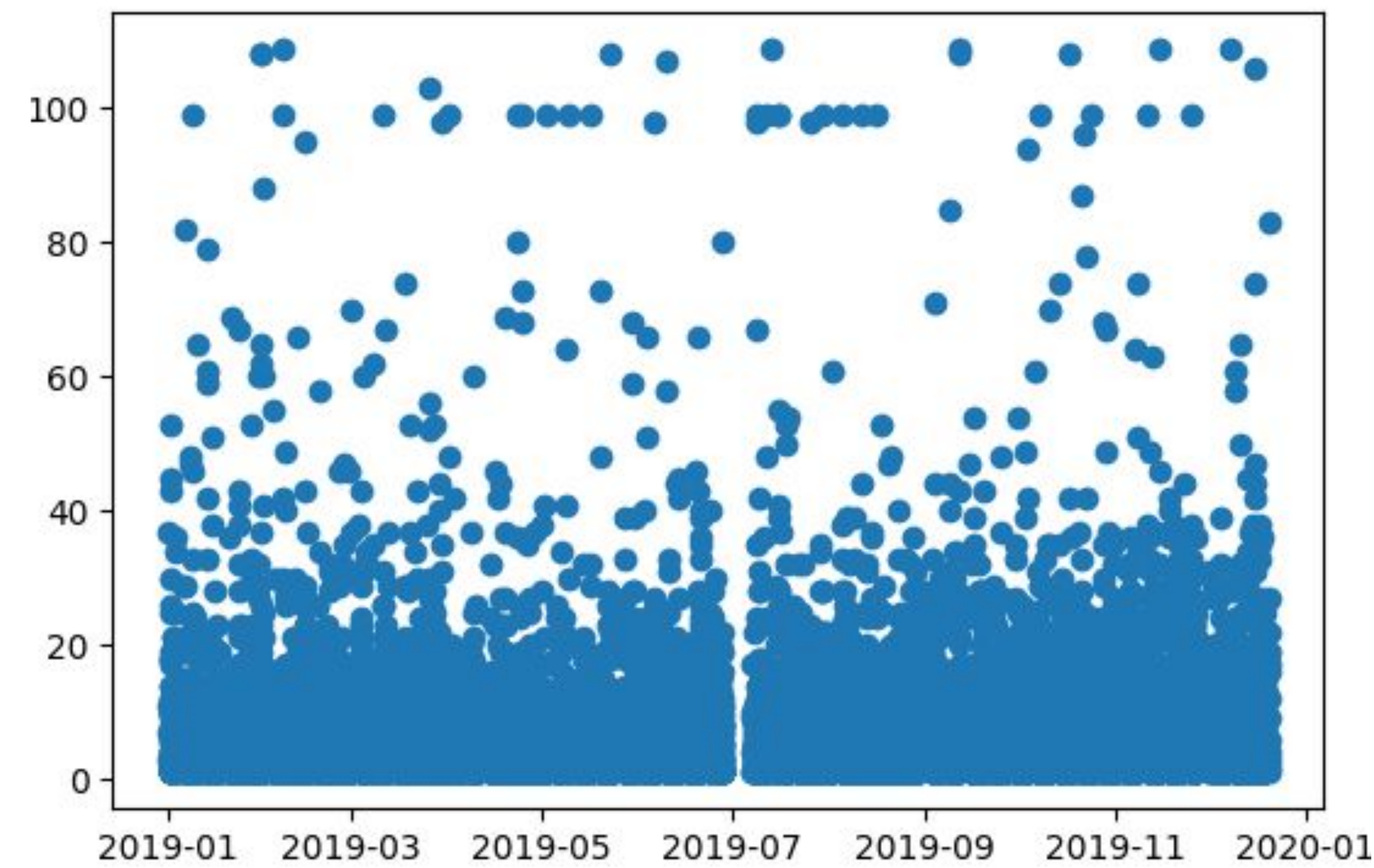


The Problem

- **Manufacturing Lines:** Bobcat produces products on various production lines.
- **Line Stops:** Lines may halt due to manual operations or errors.
- **Customer Supply:** Bobcat aims to predict the number of products that can be produced within a specific timeframe.
- **Tasks:**
 - Predict the amount of downtime.
 - Identify the reasons for downtime.
 - Pinpoint where the downtime will occur.



Downtime Events in 2019

The Solution

Exploring the Data

Initial data exploration and understanding

Categorization

Grouping data into meaningful categories

Splitting the data

Dividing data into training and testing sets

Optimization of Model for Accuracy

Fine-tuning model for best possible accuracy

Linking UI with Flask

Integrating model with user interface

Filtering the Data

Removing irrelevant or noisy data

Preprocessing the Data

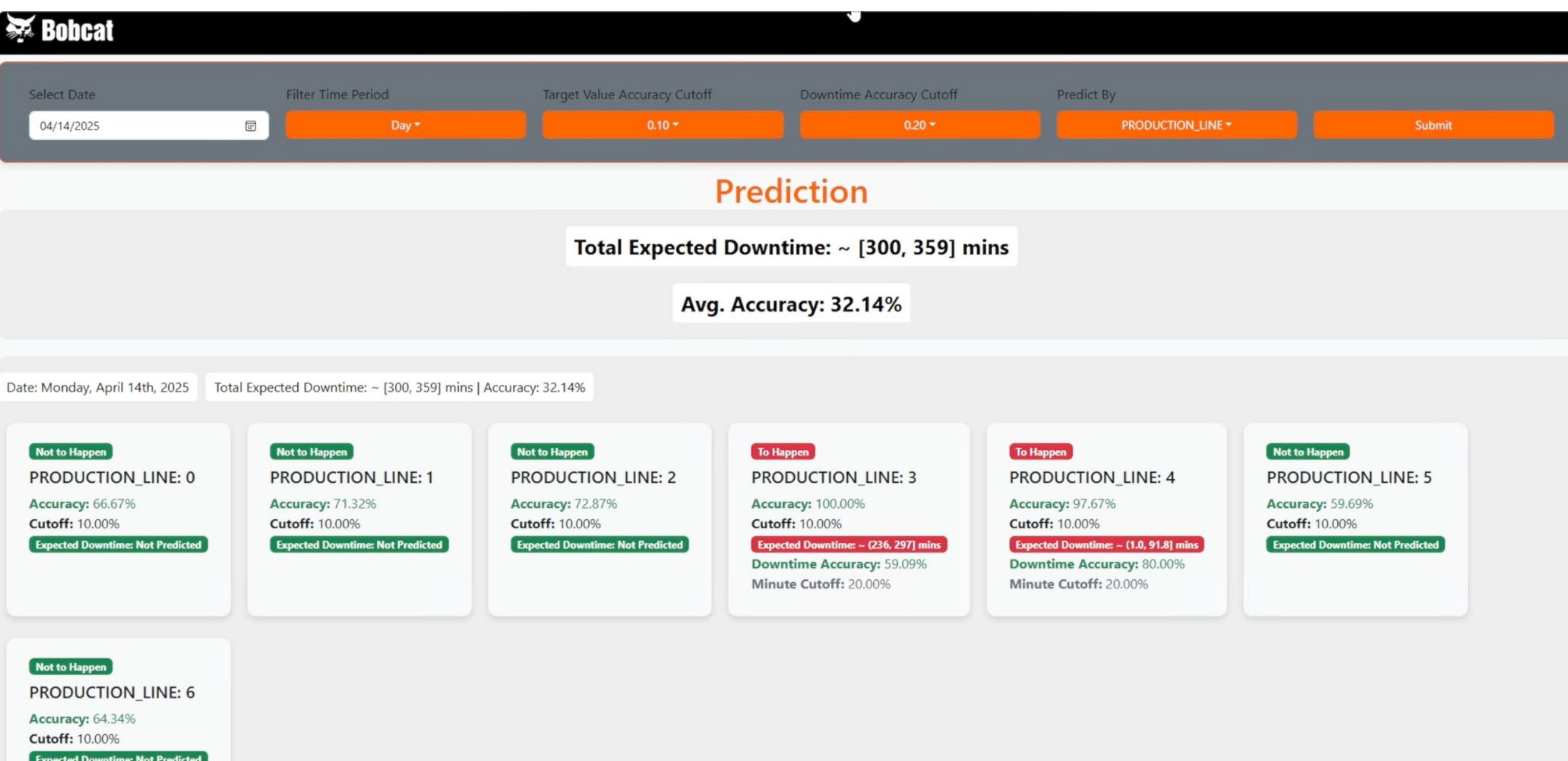
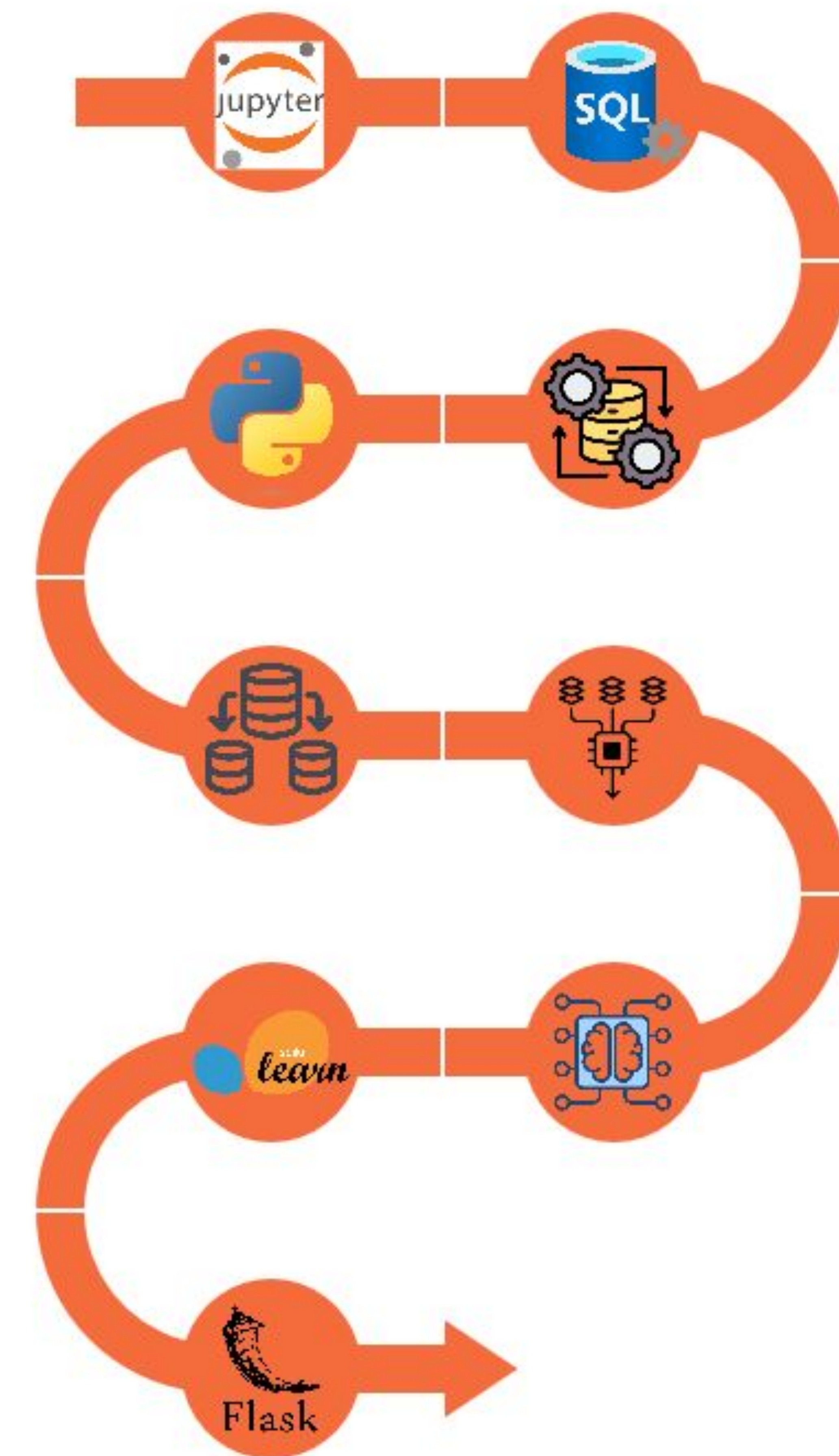
Cleaning and transforming data

Model Exploration

Testing different regression and classification models

Processing of the Results

Analyzing model outputs



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