

Problem Statement #2

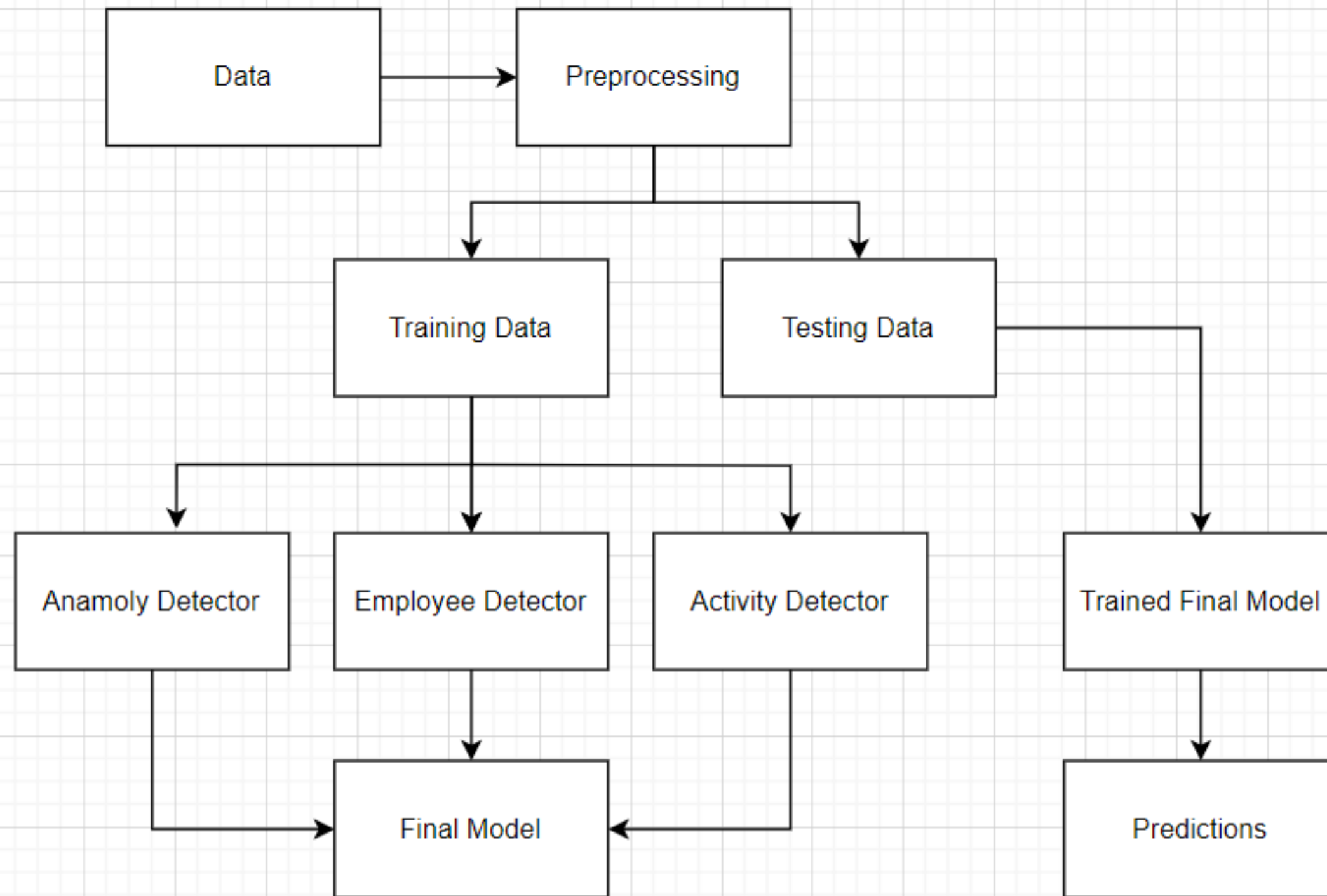
Building a new Employee Security System



Tech Stack Used

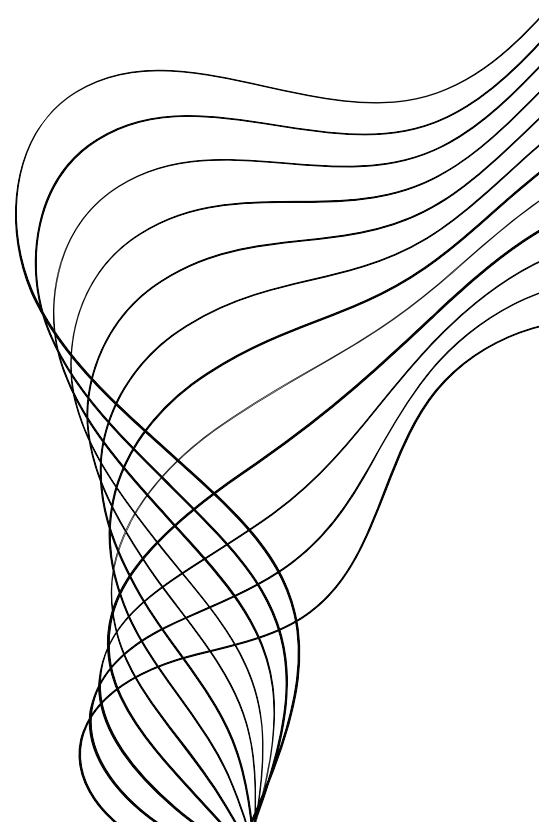
- **Library Used: Tensorflow**
 - **Language: Python**
 - **Platform: Kaggle**
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Approach





Division of tasks

- **Anomaly Detection**
 - **If it is not an anomaly then the data is from which employee and what activity he is doing now**
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Anomaly Detection

- **Tried two different models**
- **Isolation Forest**
- **Autoencoders**

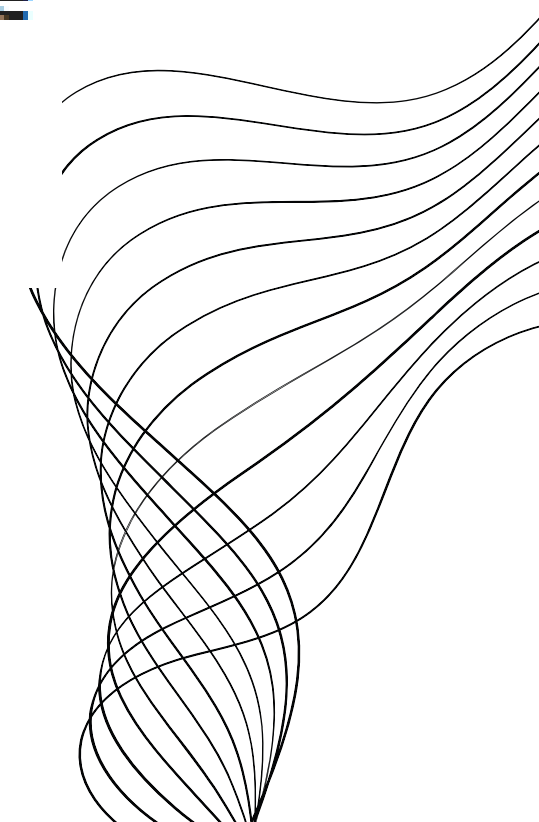
Employee & Activity Detection

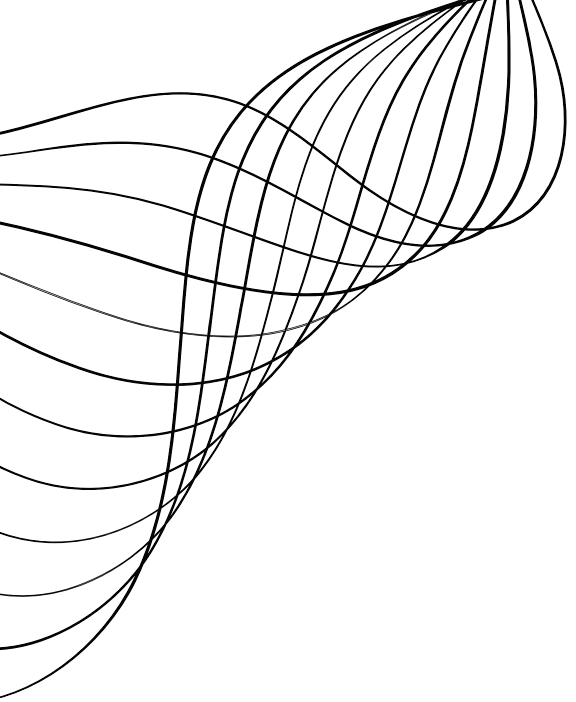
- **Deep Neural Network Architechture**
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Screenshots of Predictions from Final Model

Employee with employee id 29 is doing WALKING activity
Employee with employee id 6 is doing LAYING activity
Employee with employee id 10 is doing LAYING activity
Employee with employee id 9 is doing LAYING activity
This actions does not seem to be of your company employee
Employee with employee id 27 is doing WALKING activity
Employee with employee id 0 is doing WALKING activity





Thank you

