

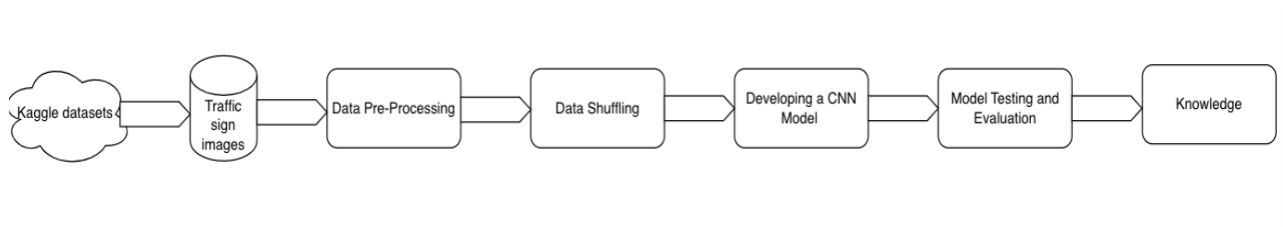
**Team: PirateMiner**

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**Project Name: Traffic Signal Detection**

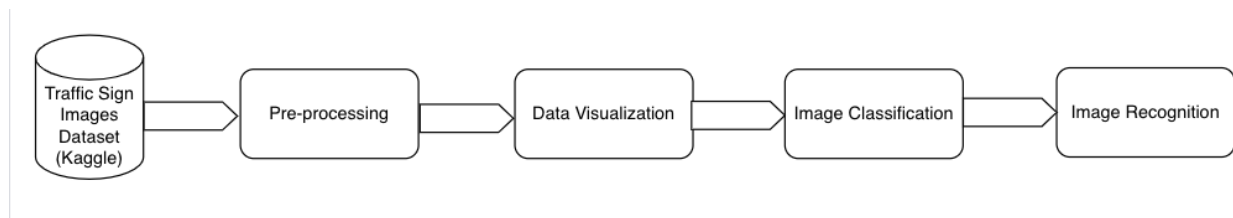
## High Level Architecture Design

**Architecture:**

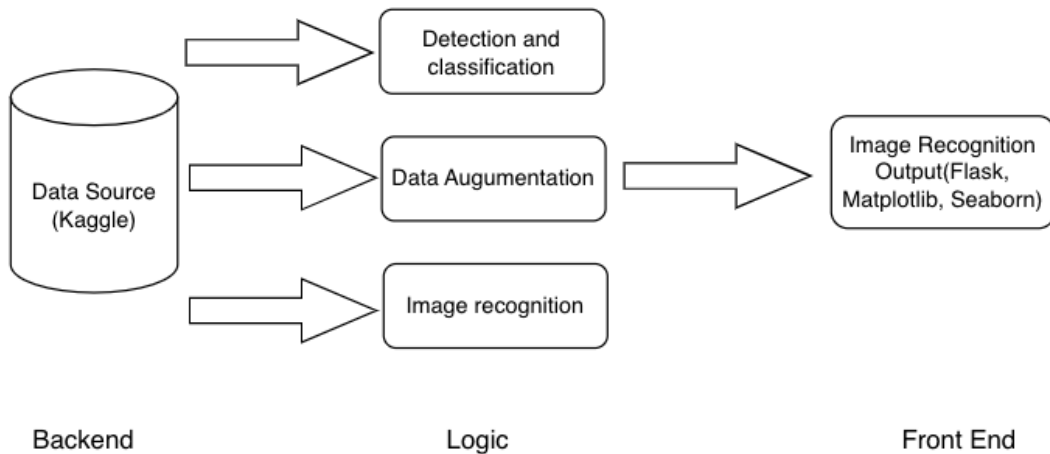


## Data Flow Diagram

**Diagram:**



## Component Level Design



Following are the components for our system:

### Backend

1. Data sources
  - a. kaggle dataset: <https://www.kaggle.com/meowmeowmeowmeowmeow/gtsrb-german-traffic-sign>

### Logic

1. Detection and Classification of the images in dataset
2. Augmenting the dataset to increase sign of training data for tuning
3. Image recognition and testing the model

### Front end

1. Matplotlib
2. Seaborn
3. Flask