Resource Agent

The resource agent is trained based on the data from <https://www.fireservice.gr/en_US/synola-dedomenon>. The data contains information about civil incidents with the intervention of Greek fire services in years 2014-2024. The cleaned and prepared dataset consists of the following variables:

1. Region
2. Location description – a few words explaining where the fire has taken place
3. Incident Characterization - describes severity of the fire / false alarm / prevention actions
4. Year
5. Month
6. Day of the week
7. Hour

Target Variables:

1. Total Fire Vehicles
2. Total Firefighting Personnel
3. Total Fireboats

The agent takes as input the first seven features, uses XGBoost algorithm for the prediction of the target variables and gives an output in form of a 3-element array, every element corresponds accordingly to Total Fire Vehicles, Total Firefighting Personnel, Total Fireboats.