

Schneider Electric Hackathon.

Solution of the data challenge through Automated Machine Learning

Our algorithm repository is based on the following works, developed by the authors

https://github.com/israelCamperoJurado/GAMA_generalized_island_model_AutoML.git

<https://github.com/Smarsity/AgroML>

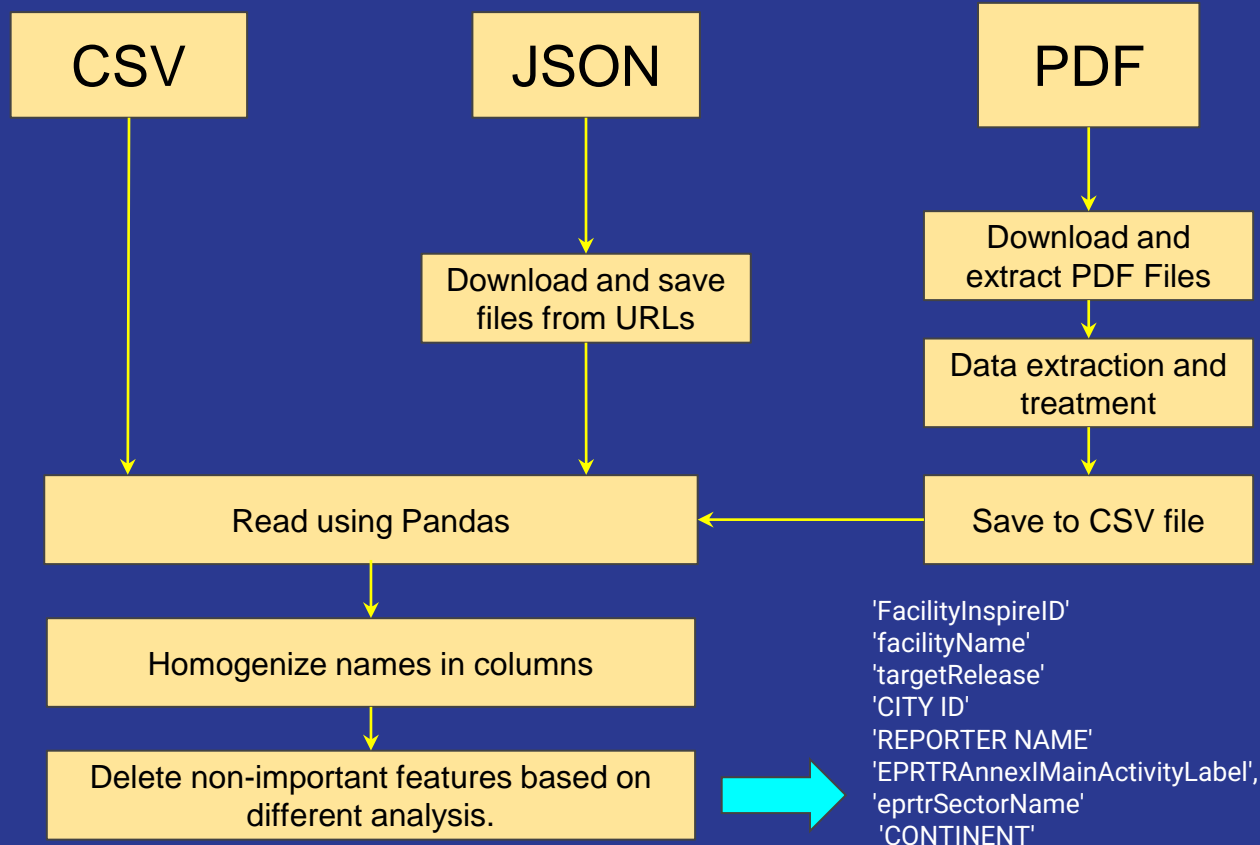
Authors:

Juan Antonio Bellido Jiménez

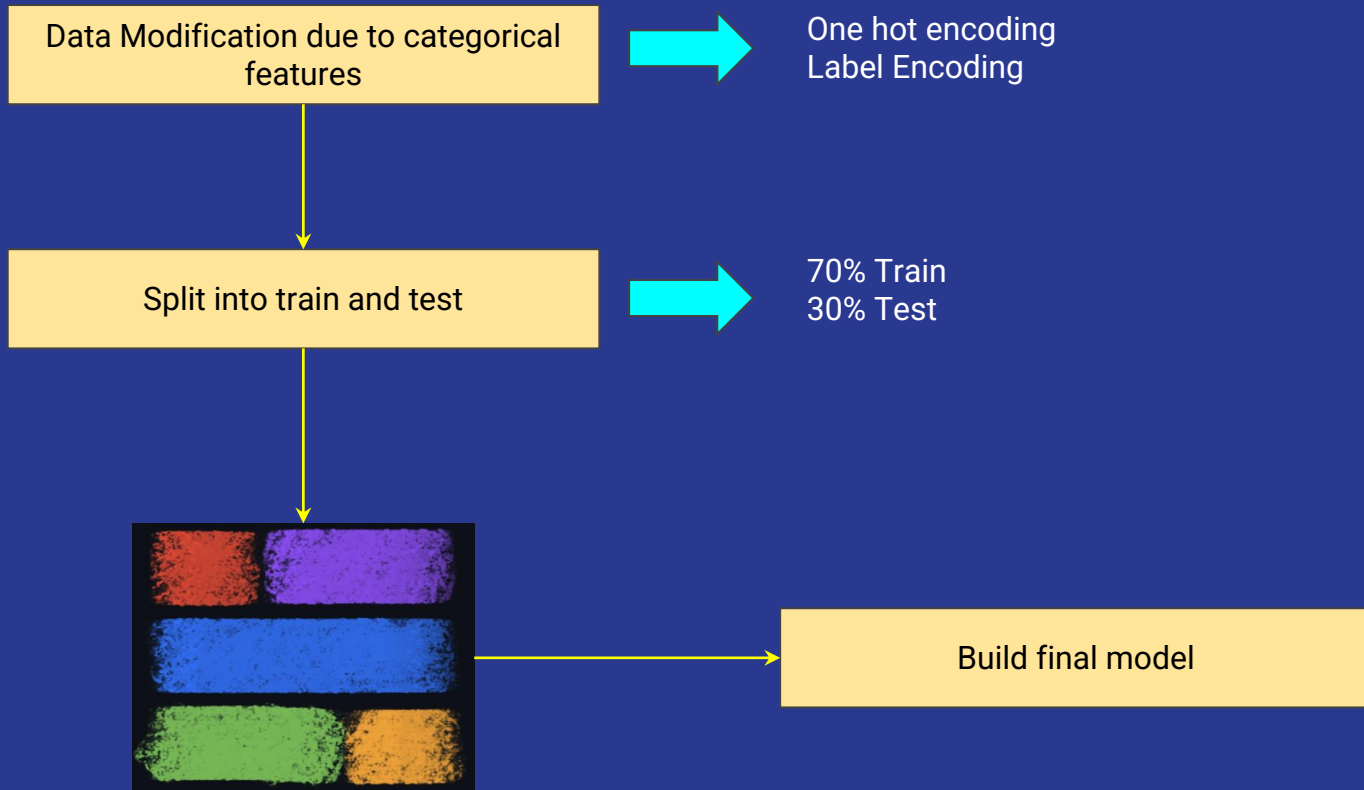
Israel Campero Jurado

Gregorio Aurelio Bueno Bueno

Data preprocessing

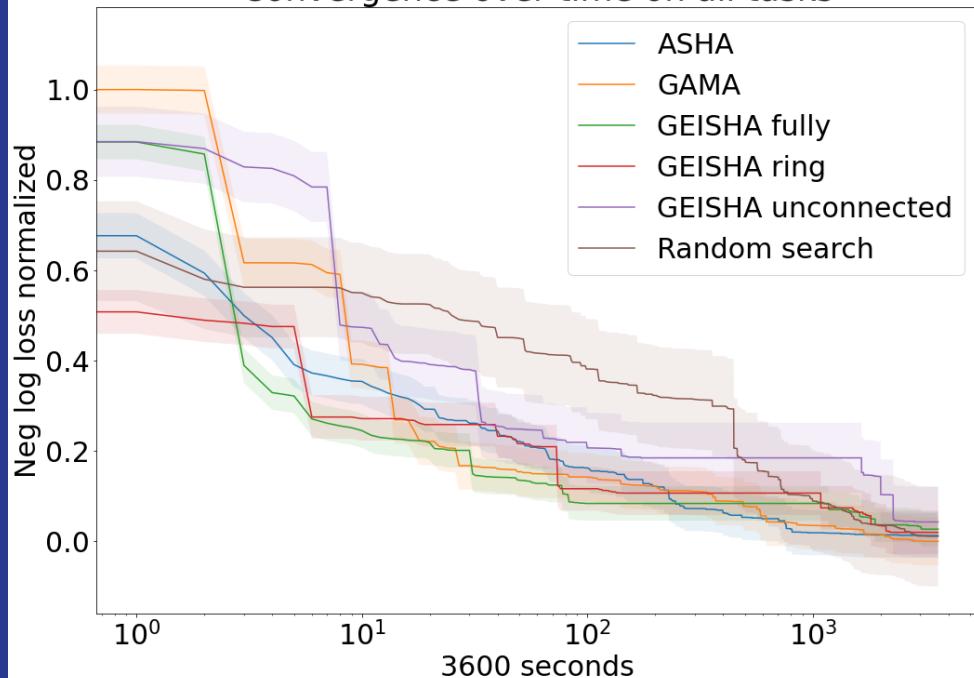


Data preprocessing



Automated Machine learning

Convergence over time on all tasks



We use an algorithm we developed for AutoML:

- This algorithm combines 8 bio-inspired algorithms
- We use a 5400 second search
- The best pipeline obtained by genetic optimisation is:

```
Pipeline(steps=[('imputation',  
SimpleImputer(strategy='median')),  
('0',
```

```
DecisionTreeClassifier(max_depth=5,  
min_samples_leaf=13,
```

```
min_samples_split=15))])
```