



Pokemon Classification Problem

Final presentation

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Link to github: https://github.com/Hardo125/ML_project

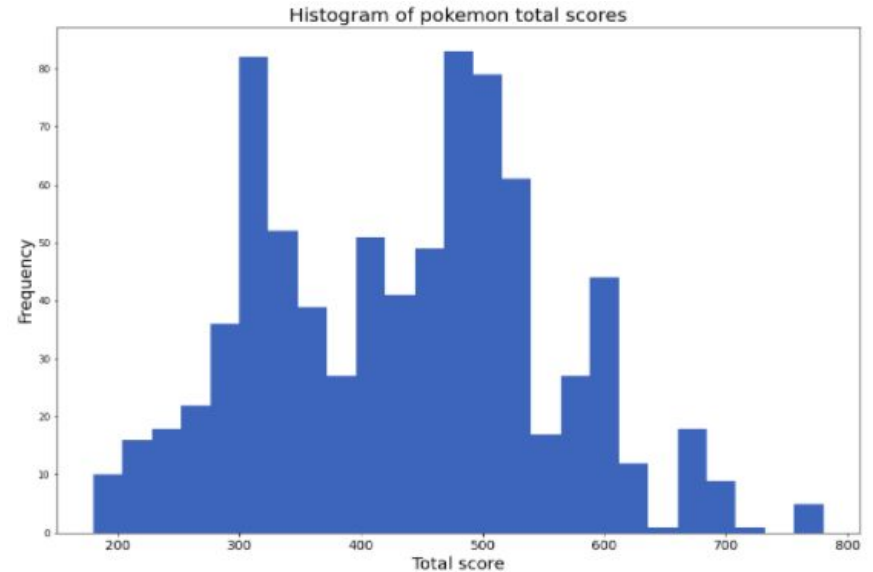
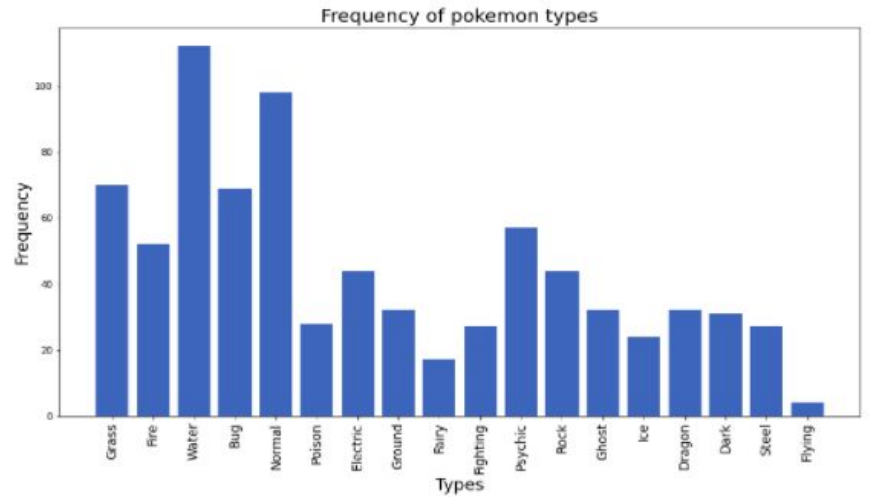


Data

- Data comes from Kaggle
- Pokemon dataset
- 800 observation (721 unique Pokemons) 12 describing variables

What we have done?

- Statistical analysis
- Bar plots, histograms etc.
- Multiple ML models
- Ensemble models
- PCA method
- Accuracy and AUC





Results

- Used models to predict pokemon type
Best model was RF. Accuracy under 30%
- Used models to predict legendary pokemon
Best model was unclear. All model's had high accuracy (near 90% or above)
- PCA method to predict legendary pokemon.
Best model was still unclear. All models retained high accuracy (90% or above)
- Found the AUC of the models predicting legendary pokemon.
All the models are worse than they seemed. Best model seems to be RF.



Problems we faced?

- No significant problems occurred...
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- ...But main problem was lack of time (other courses, homeworks, projects etc.)
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- In addition the model's didn't turn out too great



What we learned

- We cemented all the skills we learned during the course



Thank you!