Pokemon Classification Problem

Final presentation

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Link to github: https://github.com/Hardo125/ML_project
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...
- ...But the main problem was lack of time (other courses, homeworks, projects etc.)
- 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!