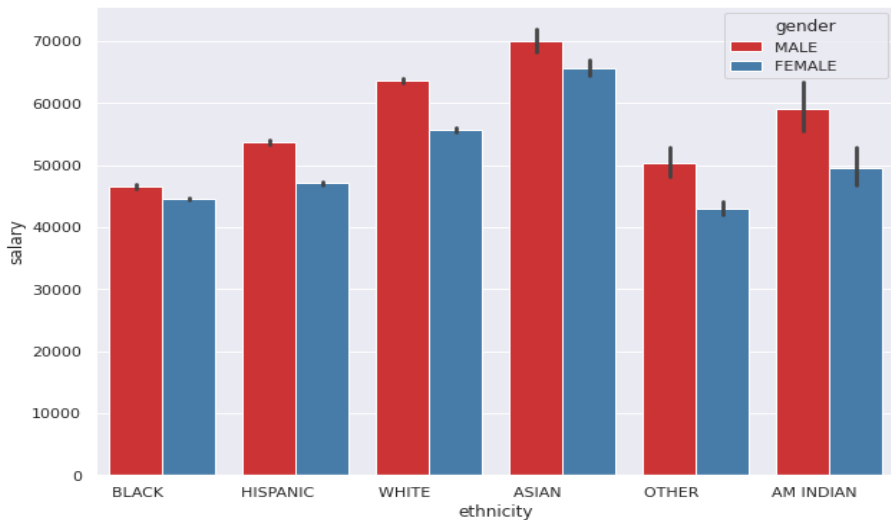


Data Challenge Presentation

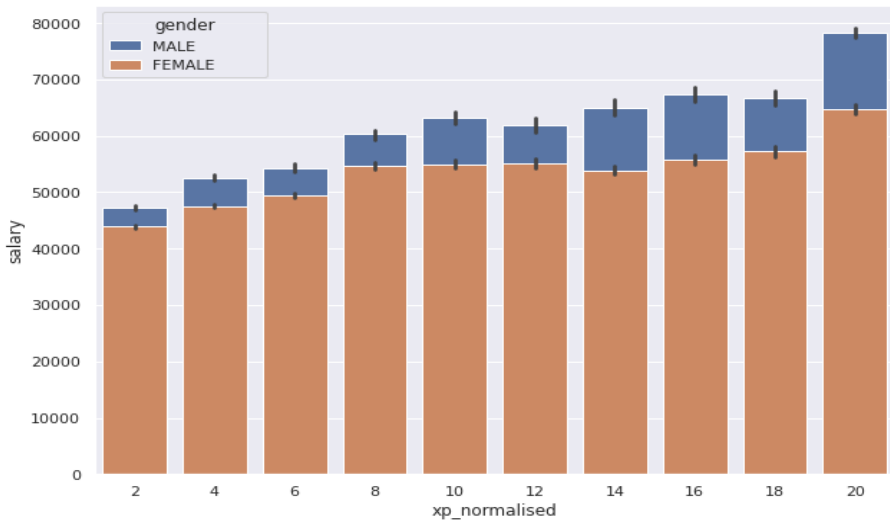
Jean Barré

April 4, 2022

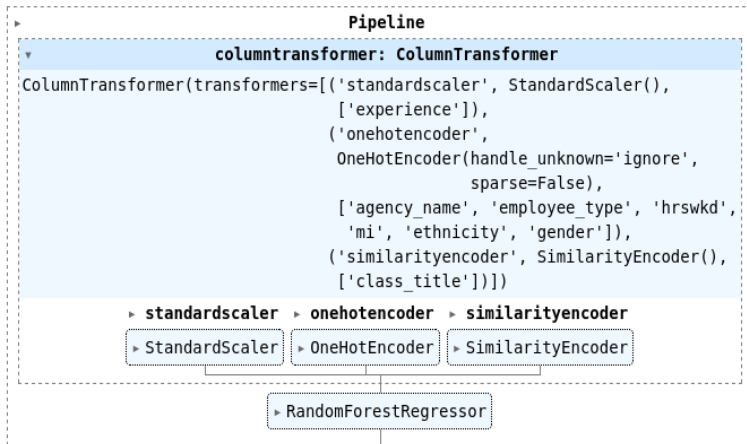
Data Visualisation 1/2



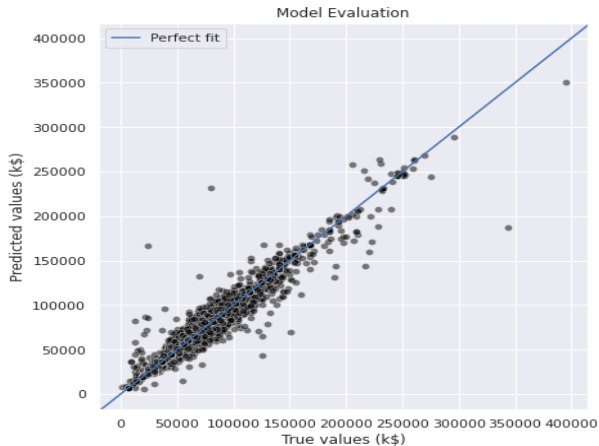
Data Visualisation 2/2



Pipeline



Model Evaluation

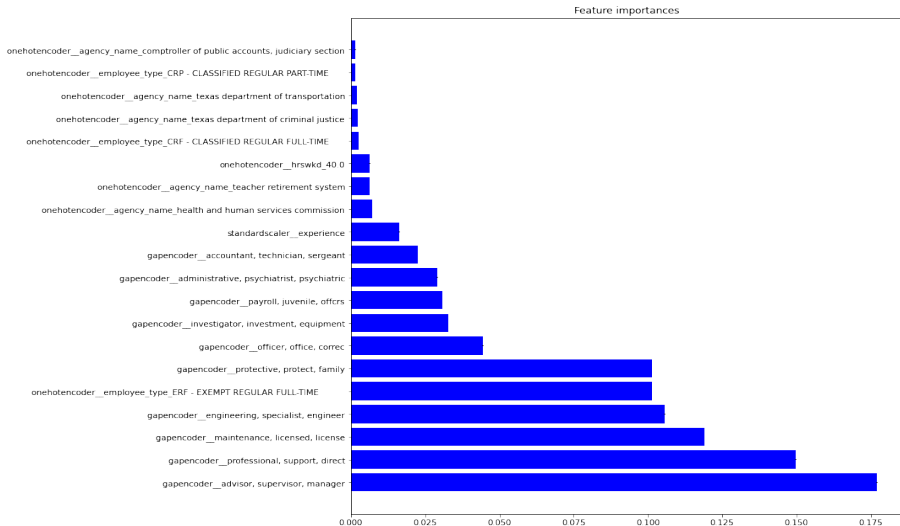


Best predictions

Model Pipeline	R2 score	MAE	RMSE
HGB & OHE	83.1%	\$7203	\$12207
HGB & GE	88.8%	\$5203	\$9207
HGB & SE	94.6%	\$3534	\$6363
RF & OHE	87.6%	\$4047	\$9685
RF & GE	91.2%	\$3614	\$8128
RF & SE	95.0%	\$2944	\$6189

Table: Results evaluation

Feature importance visualisation



Conclusion

- 1 Scikitlearn tools for predictive data analysis
- 2 Understand model inferences
 - 1 encoding strategies matter
 - 2 close look on feature importance
- 3 Bonus. Effects of gender on salaries.

Code available at

https://github.com/crazyjeannot/data_challenge