

ENEL 682

ML Course Project Reflection

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Problem Selection

I chose this problem as it is interesting how machine learning can be reliable in creating a tool or framework that can replace the manual wine-testing process. I wouldn't have assumed this process could be replaced at any point in time.

Deviations from Proposals

There were a lot of deviations from my proposal, because in the proposal the main things I wrote in terms of preprocessing techniques were suggestions and expectations. When I was writing code, I found that I needed to add or remove a technique as I was running the code, which might have caused a deviation from the proposal's methods. For example, not all validation metrics were used for the models, and for the neural network, MAE was outputted as a graph, which was not mentioned in the proposal.

Project Difficulty

This project was not difficult, because the dataset I found was quite pleasant to understand and process, it did not require a lot of sophisticated preprocessing. The ML models used were explained in class and in the assignments/examples, so I was familiar with the coding process. Though, I did find that comparing the models based on different metrics isn't as simple as just comparing numbers, because it might vary based on different hyperparameters and datasets.

I learned that machine learning models and AI are the future of this universe.

Career-wise

I am currently in the field of business intelligence and analytics, and if I ever have the chance to drift into pure data science, these techniques I am learning in the course will come in super-handly. Also, python is so much fun to use!
