







ROUMD WINNER

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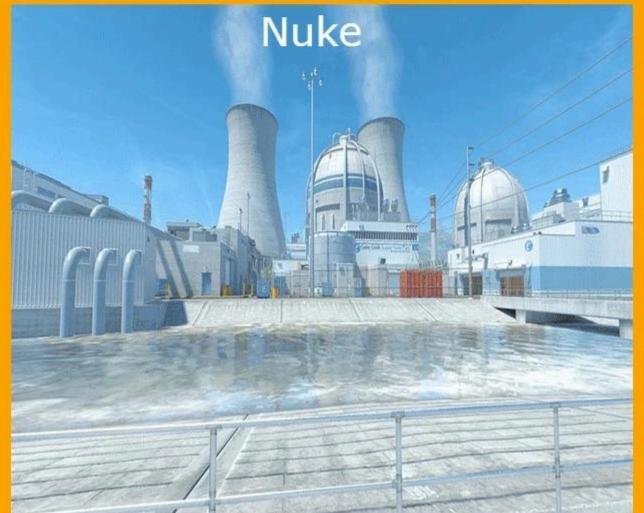
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OUR DATASET

Dataset Size:

Rows: 122,410

Columns: 97

The dataset comprises 97 features

```
mapct_health and t_healthbomb_plantedtime_leftround_winnerordinalordinalordinal
```

predicting outcomes like round winners

ARCHITECTURE

Our old architecture:

- Number of layers: 4
- Number of neurons 50
- without batch normalization

accuracy = 74%

HYPERPARAMETER TUNING

- we decided to try Model Optimization using Keras Tuner:
 - Random search
 - Hyperband
 - Bayesian

• after we tried them, the best one for our problem was Bayesian.

ARCHITECTURE

- Number of layers: 2
- Number of neurons 251
- With batch normalization
- learning rate: 5.05466655750670e-4

Accuracy?

CONCLUSION

- Our initial predictive model incorporated game-specific features and reached a reasonable level of accuracy.
- To further enhance model performance, we applied Keras Tuner for hyperparameter tuning.
- Bayesian Optimization was identified as the most effective method through this process.
- This tuning approach significantly improved the model's performance.
- The results underscore the importance of optimized hyperparameter tuning for achieving high predictive accuracy in complex scenarios.



THANK YOU!