Peer Review – Naive Bayes Project by Artur

I reviewed Artur’s notebook where he used the Naive Bayes model on the Mushrooms dataset to predict whether a mushroom is edible or poisonous. The dataset is made entirely of categories (like cap color, odor, etc.), so it was a good match for Naive Bayes, which works best with that kind of data.

What he did well:

* The model was implemented correctly, and the data was pre-processed using Label Encoding, which is the right choice for this kind of algorithm.
* The data was split into training and test sets, and performance was checked using accuracy and a confusion matrix.
* It was simple, clean, and worked

Things that could be improved:

* The notebook could use a bit more explanation. Some markdowns to describe what the data is and how the model works would help people understand it better, especially someone who’s not into coding.
* There was a section for Logistic Regression, but it wasn’t finished. Comparing it to Naive Bayes would’ve added some helpful insight.
* A short conclusion at the end.

datasets:

Even though we used different datasets, it made sense. I worked on the UK Road Accidents dataset, which is full of numbers, like speed limit, number of vehicles, and so on. That kind of data works best with models like KNN, Logistic Regression, or Random Forest.

Artur’s Mushrooms dataset, on the other hand, is completely categorical, which is perfect for Naive Bayes. If we swapped datasets, our models probably wouldn’t have worked as well. So honestly, using different datasets helped both of us show off what our models are good at.

Final thoughts:

Artur’s notebook was a good and practical use of Naive Bayes. With a bit more explanation and maybe one more model for comparison, it could be even better. Overall, it was a good project that matched his model to the right kind of data.