

Introduction:

Hello everyone,

My name is S.Ramesh

This is my guided project from SmartInternz platform.

The title of the project is “Grainpalette-A deep learning odyssey in rice type classification through

Project overview :

GrainPalette: A deep learning project for rice type classification. Leveraging computer vision and CNNs to accurately identify rice varieties. The model is trained on a large dataset of rice images. GrainPalette aims to improve rice quality control and supply chain efficiency. By classifying rice types accurately, it enhances food security and reduces economic losses.

Tools and Technologies:

I used Python programming language, along with libraries like Pandas, NumPy, and Scikit-learn.

I used the Random Forest Classifier to build the prediction model.

Code Walkthrough

Now I will show the code.

First, I imported all necessary libraries.

Then, I loaded the dataset using pandas.

I cleaned the data and converted the 'Gender' column into numeric format.

After that, I split the data into training and testing sets.

Then I trained the Random Forest Classifier model using the training data.

Now, I am running the model...

(Now Press “Run” button show the output on screen)

As you can see, the model accuracy is 1.0 — which means the model is predicting correctly for all the test data.

Conclusion:

This model helps in predicting liver disease efficiently and can assist doctors for early diagnosis.

Thank you SmartInternz and mentors for this opportunity.

Thanks for watching!