Introduction:
Hello everyone,
My name is D.manojKumar.
This is my guided project from SmartInternz platform.
The title of the project is "Revolutionizing Liver Care: Predicting Liver Cirrhosis using Advanced Machine Learning Techniques".
Project overview :
Liver cirrhosis is a serious liver disease. Early prediction helps doctors give better treatment.
In this project, I used machine learning techniques to predict whether a patient has liver cirrhosis based on medical data.
The dataset I used is the Indian Liver Patient Dataset.
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!