5. Hyperparameter Tuning with GridSearchCV or RandomizedSearchCV:

• **Description:** Perform hyperparameter tuning to optimize the performance of a machine learning model.

• **Why:** Hyperparameter tuning is essential to get the best possible performance from a machine learning model.

• **Tasks:**

    o Train a machine learning model (e.g., Random Forest or SVM) on a dataset.

    o Use GridSearchCV or RandomizedSearchCV to find the optimal hyperparameters.

    o Compare the model's performance with and without tuning.

    o Submit the code with the analysis of the tuned hyperparameters, and upload the project on GitHub, sharing the link.