DATE	28-02-2026
TEAM ID	LTVIP2026TMIDS90651
PROJECT NAME	Weather-Based Prediction of Wind Turbine Energy Output: A Next-Generation Approach to Renewable Energy Management
MAXIMUM MARKS	2 MARKS

6.2 - Data Collection:

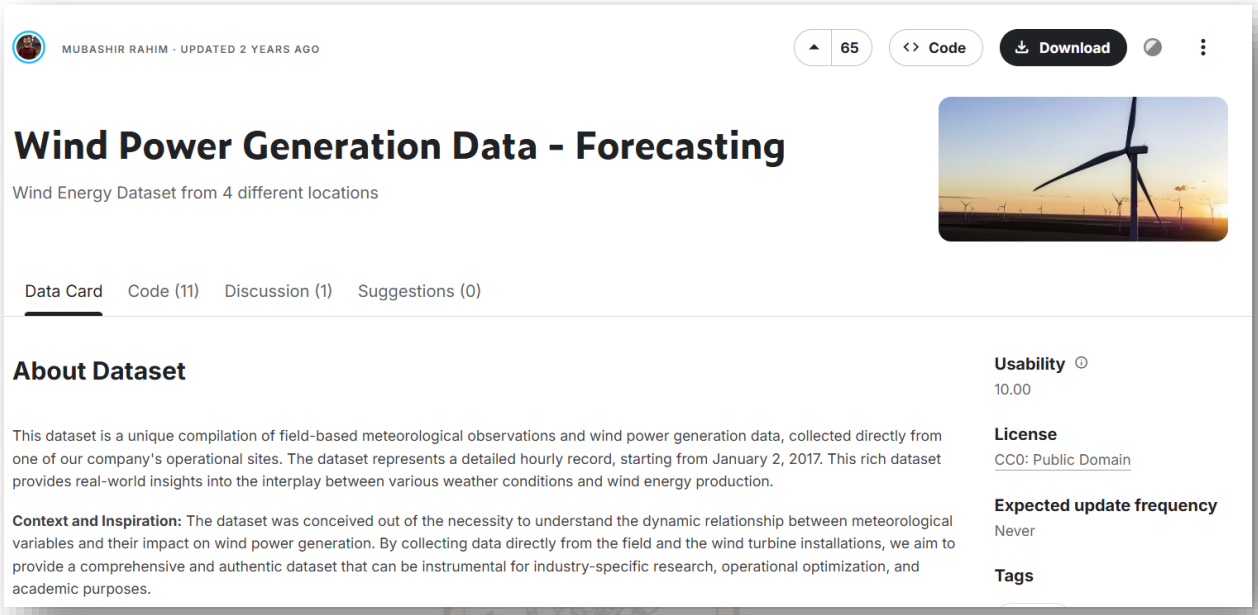
ML depends heavily on data, without data, a machine can't learn. It is the most crucial aspect that makes algorithm training possible. In Machine Learning projects, we need a training data set. It is the actual data set used to train the model for performing various actions.

- **Download dataset /create dataset:**
  The dataset for wind energy prediction is to be collected. The dataset which is considered here will have the environmental conditions. You can collect datasets from different open sources like kaggle.com, data.gov, UCI machine learning repository etc.

Step 1: Open Kaggle.com in Google.

Step 2: Click on the link and select Sign in with google.

Step 3: In the search bar "**Weather-Based Prediction of Wind Turbine Energy Output: A Next-Generation Approach to Renewable Energy Management"** to see the dataset.

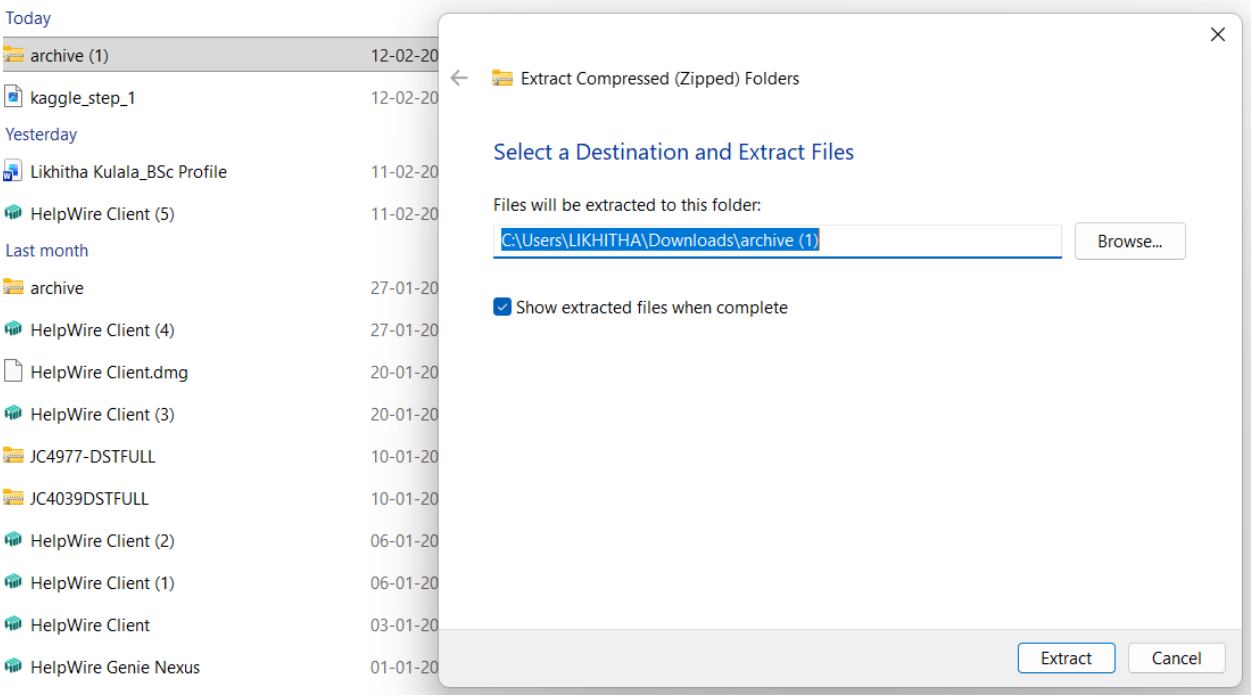


Step 4: Click the download option to download the dataset.

Step 5: Click on Download dataset as zip (3MB).

Step 6: Open the downloaded file.

Step 7: Unzip the file.



Step 8: Use the XL sheet which you have used in the project.