# PROJECT FLOW

| TITLE | Web Phishing detection |
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| COLLEGE NAME | Sri Sairam Engineering College |
| TEAM ID | PNT2022TMID03812 |

- Download the dataset.
- Pre-process or clean the data.
- Analyze the pre-processed data.
- Train the machine with pre-processed data using an appropriate machine learning algorithm.
- Save the model and its dependencies.
- Build a Web application using a flask that integrates with the model built.

**Download the dataset:**
- Navigate to your project and click File > Open.
- Navigate to the folder where the datasets are stored.
- Select the datasets you need and click Download.

**Preprocess or clean the data:**
- Data Cleaning: The data can have many irrelevant and missing parts.
- Data Transformation: This step is taken in order to transform the data in appropriate forms suitable for mining process.
- Data Reduction: Since data mining is a technique that is used to handle huge amount of data.

**Analyze the pre-processed data:**
- Data quality assessment,
- Data cleaning,
- Data transformation,
- Data reduction.

**Train the machine with preprocessed data using an appropriate machine learning algorithm:**
- Acquire the dataset.
- Import all the essential libraries.
- Import the dataset.
- Identifying and handling the missing values.
- Encoding the categorical data.
- Splitting the dataset.
- Feature scaling.

**Save the Where does model save the model?**
- Model will saved in the current directory and the model will overwrite the old one when saving the same model with same name.
- If you need various model just change the name of the model while saving the model each time.

**Build a Web application using a flask that integrates with the model built.**
- Install Flask & import necessary libraries, initialize the flask app, and load our ML model.
- Define the app route for the default page of the web-app .
- Redirecting the API to predict the phishing website.
- Starting the Flask Server