**METHODOLOGY PROPOSED SMART CONTRACT VULNERABILITY**

**Dataset:-**

[**https://ethereum.org/en/developers/docs/smart-contracts/**](https://ethereum.org/en/developers/docs/smart-contracts/)

**Tools & Libraries used:-**

Python , colab ,VS Code, pandas, numpy, scikit-learn, matplotlib, seaborn, plotly, tensorflow, keras etc.

**Module1**

**Feature Extraction from contract file:-**

**1 Extracting bytecode from smart contract**

**2 Generating images through bytecode(after image generated than training dl model)**

**Module2**

**Project Flow :-**

**1 Importing all libraries :-** import all required libraries which is used for implementation.

**2 Data Loading**

**3 Data Cleaning**

**4 Data Visualization**

**5 Data Preprocessing**

**6 Splitting data :-** into train and test .

**7 Model Building** (model mentioned below).

**8 Model Evaluation :-** Confusion matrix, Classification Report .

**9 Web Application (Flask)**

**DEEP LEARNING MODELS**

1. **CNN**
2. **EFFICIENTNET-B2**