**1.Project Overview: Face Mask Detection**

**2.Folder Structure: Import Required Library, Load dataset with images of people wearing and not wearing face masks, Data Preprocessing, and Normalization image perform resizing, Build and train CNN Model for binary classification, Evaluate the model accuracy, precision, recall, and F1-Score, Test on new images: basic interface to test the model with new images.**

**3.Libraries & Environment Setup:- TensorFlow, OpenCV, sklearn, matplotlib**

**4. How to run the code:- python -mnotebook, python app.py.**

**5. Input & Output Explanation:- Objective: Detect if a person is wearing a mask or not using CNN.**

**Dataset: Pre-labeled face images (with\_mask, without\_mask)**

**6. How to test with new data- Accuracy: ~95% on test data. Model: CNN (2 Conv layers + Dense)**

**Data image preprocessing is getting error due to undefiend image path , due to this model recall , accuracy not showing , data set not loaded due to some files are not supporting png images**

**Model & test process is working , python app.py you can check it**