Invoice Fraud Detection Project

This project is designed to detect fraudulent invoices using machine learning. It consists of two main components:

1. A Python script to train a classification model on invoice metadata.
2. A Streamlit web application to upload invoice CSV files and flag suspicious entries.

■ Project Folder Structure:

```
invoice_fraud_detection/
■■■ model_training.py      # Trains and saves the fraud detection model
■■■ fraud_app.py           # Streamlit UI to upload CSV and show results
■■■ sample_data.csv        # Sample invoice dataset for training/testing
```

■ How to Run the Project:

1. Create and activate a virtual environment.
2. Install dependencies: streamlit, pandas, scikit-learn, joblib.
3. Train the model using: python model_training.py
4. Launch the app: streamlit run fraud_app.py
5. Upload a CSV file to view fraud predictions.

■ Sample Streamlit App Output:

Below is an actual screenshot of the Streamlit app when a user uploads a CSV file. The app displays the data, predicts fraud probabilities, and flags suspicious entries.

	emp_id	name	age	department	salary
0	101	John	30	Sales	50000
1	102	Sara	28	HR	45000
2	103	David	35	IT	60000