Project Structure - Fraud Payment Detection

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Fraud_Payment_Detection2/
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|---- Project Initiation and Planning Phase/
|   |---- Project_Proposal.md           # Objective & problem statement
|   |---- Tech_Stack_and_Tools.md        # Languages, libraries, frameworks
|   |---- Timeline.md                 # Weekly plan (if applicable)
|   `---- Project_Structure_Notes.md      # Description of folder organization
|
|---- Data Collection and Preprocessing Phase/
|   |---- data_preprocessing.ipynb        # Data cleaning & preprocessing code
|   `---- data/
|      `---- dataset.md                # Dataset source & description (NO raw CSV)
|
|---- Model Development Phase/
|   `---- model_training.ipynb         # Training all required models
|                          # (Random Forest, DT, XGBoost, etc.)
|
|---- Model Optimization Phase/
|   |---- model_comparison.ipynb        # Evaluation, comparison, plots
|   `---- payments.pkl               # Final/best-performing model file
|
|---- Project Execution/
|   |---- flask/
|   |   |---- app.py               # Main Flask app (local)
|   |   |---- app_ibm.py             # IBM deployment version (if used)
|   |   |---- payments.pkl            # Deployed model (can copy from above)
|   |
|   |   |---- static/
|   |   |   `---- styles.css          # Web app styling
|   |
|   |   `---- templates/
```

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|   |       |---- home.html              # Landing page
|   |       |---- predict.html           # Input form for transaction data
|   |       `---- submit.html            # Output page (fraud/not fraud)
|   |
|   `---- requirements.txt               # All necessary Python packages
|
|---- README.md                          # Main project guide (at root level)
```