Crypto

crypto\_price\_prediction/

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├── data/

│ ├── raw/ # API se fetched data (original CSVs)

│ ├── processed/ # Cleaned + feature-engineered datasets

│ └── external/ # Optional: sentiment/news data

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├── notebooks/

│ ├── 01\_data\_collection.ipynb # API se data fetch + save

│ ├── 02\_feature\_engineering.ipynb # Technical indicators, feature creation

│ ├── 03\_eda.ipynb # Exploratory Data Analysis + plots

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├── src/

│ ├── \_\_init\_\_.py

│ ├── config.py # Constants, file paths

│ ├── data\_collection.py # Fetch data functions

│ ├── feature\_engineering.py # Feature generation

│ ├── labeling.py # Create target variable

│ ├── pipeline.py # ML training + evaluation sequence

│ ├── model\_train.py # Train & save models

│ ├── evaluation.py # Accuracy, F1, confusion matrix

│ └── backtest.py # Strategy simulation

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├── models/ # Saved ML models (.pkl / .h5)

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├── plots/ # All generated graphs, metrics plots

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├── requirements.txt # Python dependencies

├── README.md # Project description

├── .gitignore # Ignore venv, large files

└── run\_pipeline.py # Runs full ML pipeline from raw data to results