Machine Learning Generated Fundamental Analysis For Stock Market Listed Companies- Technical Documentation

1. Project Overview

This project is a Flask-based web application for financial analysis.

Users can input stock-related data, run analysis (potentially involving ML models), and get structured results

via a web interface.

2. Setup Instructions

1. Install Python 3.10 or above.

2. Create and activate a virtual environment.

3. Install dependencies using: pip install -r requirements.txt

4. Run the app using: python run.py

3. Project Structure

finance/app_config.py

finance/requirements.txt

finance/run.py

finance/app/analyze.py

finance/app/forms.py

finance/app/models.py

finance/app/routes.py

finance/app/utils.py

finance/app/views.py

finance/app/__init__.py

finance/app/templates/analysis.html

finance/app/templates/index.html

finance/app/templates/results.html

finance/app/__pycache__/analyze.cpython-313.pyc

finance/app/__pycache__/fetch_data.cpython-313.pyc

finance/app/__pycache__/forms.cpython-313.pyc

finance/app/__pycache__/models.cpython-313.pyc

finance/app/__pycache__/routes.cpython-313.pyc

finance/app/__pycache__/utils.cpython-313.pyc

finance/app/__pycache__/views.cpython-313.pyc

finance/app/__pycache__/__init__.cpython-313.pyc

finance/scripts/db_utils.py

finance/scripts/fetch_data.py

finance/scripts/ml_analysis.py

finance/uploads/test.json

finance/__pycache__/app_config.cpython-313.pyc

finance/__pycache__/config.cpython-313.pyc

...

4. Running the Application

Use the command: python run.py

This will start the Flask development server. Access the app via http://127.0.0.1:5000/ in your browser.

5. Usage Guide

1. Navigate to the homepage.

2. Enter financial data or select a stock for analysis.

3. Click 'Analyze' to trigger backend logic.

4. Results will be displayed in a results template.

6. Troubleshooting

- If dependencies fail, ensure pip and Python are up to date.

- If app fails to start, verify Flask is installed and `run.py` has correct imports.

- Check logs printed in the console for specific errors.