Project Structure: Twitter/X Sockpuppet Detection System

Overview

This document outlines the file and directory hierarchy, along with filename conventions, for a modular Python project designed to detect sockpuppets on Twitter/X using Playwright, stylometry, and behavioral analysis.

Directory Structure

```
sockpuppet_detector/
Т
|-- src/
   |-- __init__.py
    |-- main.py
                                  # Entry point
   |-- config.py
                                  # Configuration constants
   |-- utils.py
                                  # Helper functions
    |-- input/
    | |-- __init__.py
     \-- user_input.py
                                  # CLI parser, validation
    |-- browser/
    | |-- __init__.py
     |-- controller.py
                                  # Playwright launcher
       \-- page_loader.py
                                  # Navigation & scrolling
    |-- scraping/
     |-- __init__.py
       \-- tweet_extractor.py
                                  # Tweet data extraction
    |-- processing/
       |-- __init__.py
       |-- normalizer.py
                                # Clean/normalize tweet data
       \-- feature_extractor.py # Stylometry & behavior vectors
   |-- analysis/
    | |-- __init__.py
```

Filename Conventions

- All files use snake_case.py naming.
- Keep names short and descriptive: tweet_extractor.py, not extract_all_tweets_module.py.
- Test files follow the format: test_module.py.
- Separate files by purpose, not chronology or dev stage.

Development Tips

- Build incrementally from main.py.
- Treat each folder as a module by using __init__.py.
- Maintain modular separation: scraping, processing, analysis.
- Write unit tests for each module.