Test\_heavy3.py summary

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| Section | Purpose | Expected Feedback | Static vs. Dynamic |
| Imports and Constants | Load libraries and define project paths, modules, dependencies, aliases, and config imports for checks. | N/A (setup only) | Static |
| Helper Functions | Provide logging (log\_and\_record), headers (print\_section\_header), and error handling decorator for consistent checks. | N/A (internal tools) | Static |
| Dependencies Check | Verify required libraries are importable. | 'OK' per dep or 'Missing' with install tip | Static |
| Environment File Check | Check .env existence and required keys (API credentials). | 'OK' if all present or 'Missing' per key | Static |
| xAI Endpoint Check | Validate config.URL matches expected API endpoint. | 'OK' or 'Incorrect' with expected value | Static |
| Model Prediction Check | Search prediction.py for "model": "grok-3" string. | 'OK' or 'Missing/Incorrect' | Static |
| Logging Configuration Check | Test logging\_utils.setup\_logging for file and stream handlers. | 'OK' or 'Missing' for handlers | Dynamic (executes setup) |
| Cooldown Logic Check | Search trading\_loop.py for COOLDOWN\_SECONDS and last\_trade\_time. | 'OK' or 'Missing' | Static |
| Trade Filtering Check | Search trade\_analysis.py for time\_threshold and datetime. | 'OK' or 'Missing' | Static |
| Fetch Bar Data Signature Check | Inspect fetch\_bar\_data signature in data\_utils.py. | 'OK' or 'Incorrect' with expected params | Static |
| API Connectivity Check | Send test request to xAI API to verify connectivity. | 'OK (Status 200)' or 'Failed' with error | Dynamic (API call) |
| Config Imports Check | Parse modules for expected imports from config.py using AST. | 'OK' or 'Missing' per module | Static |
| Module Dependencies Check | Parse modules for library aliases and API variables (e.g., headers). | 'OK', 'Not Used', or 'Missing' per alias | Static |
| Parameters Check | Validate config.py params (floats, ints, modes). | 'OK' or 'Invalid/Missing' per param | Static |
| Module Check | Check module existence, syntax, imports, and expected items/functions. | 'OK' or 'Missing/Error' per module/item | Static (with import exec) |
| Dynamic Execution Check | Optionally execute trading\_logic with mocks to catch runtime errors. | 'OK' or 'Error' for trading\_logic | Dynamic (mock execution) |
| Main Function | Run all checks, summarize results, and exit on errors; lock file for concurrency. | Summary table; exit 1 on errors | N/A (orchestrator) |