Course Project Part 1

Section B: Introduction to technical analysis

Criteria	Ratings	Pt s
Data Acquisition and Indicator Computation a) Retrieves S&P 500 stock data using yfinance b) Correctly computes MA50 and MA200 for all stocks	15 pts – Excellent All data retrieved without error and moving averages computed accurately for full stock set. 12 pts – Competent Data and indicators mostly correct, with minor issues or incomplete stock coverage. 9 pts – Basic Significant errors or missing components in data or moving averages. 0 pts – Insufficient No functional data retrieval or indicator calculation.	15 pts
Signal Detection and Filtering a) Golden and Death Crosses are correctly detected b) Focused on crosses within the last 14 days c) Results stored and filtered into a usable format	15 pts – Excellent Cross signals accurately detected and recent ones correctly isolated and stored. 12 pts – Competent Crosses mostly correct with partial filtering or structuring issues. 9 pts – Basic Cross detection logic flawed or recent signal filter not functional. 0 pts – Insufficient Signals not detected or logic missing entirely.	15 pts
Visualization and Volatility Analysis a) Golden and Death Cross stocks visualized b) Volatilit y computed and contextualized in the plot c) Proper date shading and labeling	10 pts – Excellent Plots are complete, labeled, include volatility, and clearly highlight signals. 8 pts – Competent Plots are generated but lack polish or omit volatility/shading. 6 pts – Basic Plots are unclear or missing critical elements (e.g., titles, cross window). 0 pts – Insufficient No plots produced or irrelevant content.	10 pts

Reflection and Critical Analysis a) Answers all reflection questions on technical signals, volatility, and signal quality b) Provides backtesting rationale and strategic evaluation	10 pts – Excellent All responses are thoughtful, technically sound, and show real-world insight. 8 pts – Competent Most questions answered with reasonable depth and technical logic. 6 pts – Basic Answers are superficial or incomplete. 0 pts – Insufficient Reflection missing or lacks relevance and	10 pts
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