

Project Plan (Due Oct 20)

Task	Description & Deliverables	Assigned To	Due Date
1. Setup GitHub Repository	Create starter repo with README, license, and folder structure: <ul style="list-style-type: none">• README.md• .github/workflows/ci.yml• requirements.txt	Robair	Sept 20
2. Data Acquisition	Connect to Yahoo Finance API (stock prices, company financials), pull financial news (Kaggle/NewsAPI), and retrieve economic indicators from FRED: <ul style="list-style-type: none">• src/data/yahoo.py• src/data/news.py• src/data/fred.py+ cache layer	Robair	Sept 25
3. Data Preprocessing	Clean, normalize, and align datasets (dates, tickers, categories). Handle missing values, duplicates, and formatting (Notebook cell + src/data/preprocess.py)	Syed	Sept 30
4. Agent Functions	Implement agent that can: 1) plan research steps, 2) dynamically use tools (Yahoo Finance, FRED, News), 3) self-reflect on outputs, 4) learn iteratively src/agents/planner.py + demo cell	Iman	Oct 5
5. Workflow Patterns	Build Prompt Chaining (news → preprocess → classify → summarize), Routing (directing data to the right function), Evaluator–Optimizer (feedback loop)	Syed	Oct 10

6. Integration & Testing	Merge components into a working notebook; test on sample stock tickers and news articles	Iman	Oct 13
7. Documentation	Update README, add comments in notebook, prepare submission draft (PDF/HTML) Write Supplemental Report	All	Oct 17-18
8. Final Review & Submission	Peer review, polish outputs, and submit final notebook	All	Oct 19–20