

Group Number: 01

Group Members Name: Vrushabh Jain

Topic: AI Financial Dashboard

Mentor Name:

Date: 24/12/25

Project Description: Cognitive Graph Portfolio Optimiser (CGPO)

The Cognitive Graph Portfolio Optimizer (CGPO) is a novel decision-support system designed to enhance financial risk forecasting and portfolio management. It uniquely fuses firm-specific insights from multimodal data specifically earnings call audio and text with a systemic, graph-based view of asset interdependencies. The system utilizes a Reinforcement Learning (RL) agent to analyze these dynamic market structures and provide optimized portfolio rebalancing recommendations.

Tasks Done:

SRS Finalization:

- Completed SRS Version 1.0.
- Formulated Core Hypotheses regarding "Vocal Cues" and "Dynamic Graphs" vs Correlation Matrices.
- Saved document to project repository.

Data Form Link (Jot form / Google Form): <https://cgpo-survey.streamlit.app/>