

Assignment 1

MGMT 675: Generative AI for Finance

Exercise 1: AI Use Cases in Finance. Pick a specific finance role (e.g., equity research analyst, credit underwriter, portfolio manager, compliance officer). Using Claude.ai, have a conversation in which you identify five concrete tasks that AI could automate or augment in that role. For each task, classify it as “maker” work or “checker” work (per the JP Morgan framing in the slides). Submit a one-page summary (**Exercise1.pdf**) with your classifications and a brief argument for which task would deliver the most value if automated first. Submit a screenshot of your Claude conversation (**Exercise1-Screenshot.png**).

Exercise 2: Cross-Model Evaluation. Ask Claude and at least one other AI (ChatGPT, Gemini, or Copilot) the same finance question: “*Explain the Modigliani-Miller theorem and its real-world limitations.*” Compare the two responses on accuracy, depth, and clarity. Then start a new Claude conversation and ask it to critique the other model’s answer. Submit screenshots of all three outputs (**Exercise2-Screenshot1.png**, **Exercise2-Screenshot2.png**, **Exercise2-Screenshot3.png**) with a short reflection (**Exercise2-Reflection.pdf**, half page) on what you learned about cross-evaluation.

Exercise 3: Interactive Bond Pricing App. Using Claude.ai Artifacts, create an interactive app that lets a user input a bond’s coupon rate, yield to maturity, face value, and years to maturity (assume semi-annual coupons). The app should compute the bond price and display an interactive chart showing how the price changes as the yield varies from 0% to 15%. Publish the artifact and submit the shareable link (**Exercise3-Link.txt**). Submit a screenshot of the published artifact (**Exercise3-Screenshot.png**).

Exercise 4: Portfolio Consolidation. Download [portfolio-consolidation.zip](#) and extract the files. You will have holdings data from three brokerages in different formats (two Excel workbooks and one CSV). Upload all three files to Claude.ai and ask it to: (a) merge all equity holdings into a single consolidated view with standardized columns, (b) resolve inconsistencies between ticker symbols and full company names, (c) sum shares for positions that appear in multiple accounts, and (d) produce a summary showing total portfolio value, top five holdings by market value, and asset allocation between equities and bonds. Submit the consolidated output (**Exercise4.xlsx**) and a screenshot of the Claude conversation (**Exercise4-Screenshot.png**).

Submission. Upload a zip file containing each file requested above with the filename shown in parentheses. Name the zip file Assignment1.zip.