MGMT 638

Session 1

Kerry Back

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Quality Minus Junk

- PDF: Quality Minus Junk, Asness, Frazzini, and Pedersen, 2019
- Video: Quality Minus Junk, Asness, Frazzini, and Pedersen, 2019

Factor Investing

- Factor Investing at BlackRock
- Video: Factor Investing
- Systematic Equities at AQR
- Returns from Sorts on Factors



BY ANTHROP\C

Claude Code

Part of a new generation of terminal-based coding agents, along with OpenAl Codex and Gemini CLI.

It integrates well with popular development environments like VS Code.

Using standard Anthropic models, it is optimized for development tasks.

Requires Claude Pro subscription



Varieties of Claude



Claude.ai

Interact with Claude directly through its intuitive web interface for general tasks and conversations.



Claude Desktop

Access Claude as a dedicated desktop application for enhanced productivity and offline capabilities.



Claude Code in Terminal

Integrate Claude's coding capabilities into your command-line workflow for quick code generation and debugging.



Claude Code in VS Code

Leverage Claude's advanced code assistance directly within your VS Code development environment.

Claude Code's Capabilities



File Operations

Create, edit, copy, move, and delete files



Document Creation

Generate and edit LaTeX documents. Generate Word docs, PowerPoint presentations, and Excel workbooks



Python Development

Write, edit, and execute **Python scripts** and **Jupyter notebooks**



Deployment

Create **GitHub** repositories and **deploy apps** on hosting platforms



Claude Code Example 1: Creating Apps

Create a Streamlit app that allows a user to input (i) years to retirement, (ii) current investment account balance, (iii) planned annual savings, (iv) expected rate of return, and (v) standard deviation of rate of return.

Simulate 1,000 possible lifetimes and display statistics and a probability density curve for the account balance at retirement

Run the app and tunnel it using my ngrok token stored in .env.



Initial Steps

1. Sign up for Claude Pro:

- 1. Visit claude.ai
- 2. Click "Sign Up" or "Get Started"
- 3. Create account using email or Google/Apple sign-in
- 4. After signing in, click "Upgrade to Pro" in the sidebar
- 5. Choose the monthly payment plan
- 6. Complete payment information
- 2. YouTube Video

Install Claude Code

Prerequisites: Node.js 18+ required on both Mac and Windows

Mac Installation:

- Install Node.js: brew install node (or download from nodejs.org)
- Install Claude Code: npm install -g @anthropic-ai/claude-code

Windows Installation (No WSL needed):

- Install Node.js from nodejs.org
- Open PowerShell and run: irm https://claude.ai/install.ps1 | iex

After installation, run claude doctor to verify setup

Install Python 3.12

- Tell Claude Code: "Install Python 3.12 and add it to the path."
- Claude will detect your OS and install Python appropriately
- Tell Clause Code: "Upgrade pip"

Set Up Python Environment with Claude Code

Step 1: Create Course Folder

- Create a folder for this course (e.g., mgmt638)
- Navigate to the folder in terminal/PowerShell

Step 2: Launch Claude Code

• In the course folder, type: claude

Step 3: Create Virtual Environment

- Tell Claude Code: "Create a virtual environment using Python 3.12"
- This keeps course packages isolated

Install Python Packages

Tell Claude Code to install the following packages in the virtual environment:

- pip install numpy pandas scipy statsmodels scikit-learn
- pip install openpyxl matplotlib seaborn ipykernel
- pip install pandas-datareader streamlit

Install VS Code and Extensions

Step 1: Install VS Code

- Tell Claude Code: "Install VS Code"
- Or download from code.visualstudio.com

Step 2: Install VS Code Extensions

Tell Claude Code to install these VS Code extensions:

- Python
- Jupyter
- Claude Code