MGMT 638

Session 1

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

Claude

Claude Code

Part of a new generation of terminal-based coding agents, along with OpenAI 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 Code in Terminal

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

Claude Desktop

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

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

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 - Mac

Prerequisites: Node.js 18+

Step 1: Install Node.js

- Using Homebrew: `brew install node`
- Or download installer from nodejs.org

Step 2: Install Claude Code

- Run: `npm install -g @anthropic-ai/claude-code`

Step 3: Verify Installation

- Run: `claude doctor`

Install Claude Code - Windows

Prerequisites: Node.js 18+ and Git for Windows

Step 1: Install Node.js

- Download and install from nodejs.org
- Choose the LTS (Long Term Support) version

Step 2: Install Git for Windows

- Download from git-scm.com/download/win
- During installation, select "Git Bash" (default option)
- This provides the bash shell that Claude Code needs

Step 3: Install Claude Code

- Open Git Bash (or PowerShell)

Already Installed Claude Code? Reinstall It

If you installed Claude Code BEFORE installing Git Bash:

Claude Code needs to be reinstalled so it can find Git Bash.

Step 1: Uninstall Claude Code

- Open PowerShell or Git Bash
- Run: npm uninstall -g @anthropic-ai/claude-code

Step 2: Reinstall Claude Code

- Run: npm install -g @anthropic-ai/claude-code

Step 3: Verify

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`
- `pip install requests python-dotenv`

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

Setup Rice Data Access

Step 1: Get Access Token

- Visit data-portal.rice-business.org
- Confirm your Rice email to receive an access token (JWT)

Step 2: Create .env File

- In your course folder, create a file named .env
- Add this line: RICE_ACCESS_TOKEN=your_token_here
- Replace your_token_here with your actual token
- The .env file is automatically ignored by git

Step 3: Copy Skill File

- Copy .claude/skills/rice-data-query/ from course repo
- Place in your .claude/skills/ folder