# **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**

- 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