

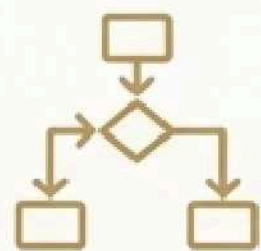
# Unlock Your \$500K–\$900K+ Career in Capital Markets

## The Capital Markets Data & AI Engineering Program

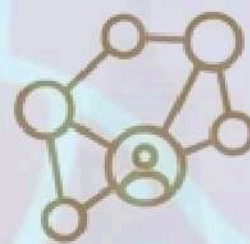
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The Director-Track Pathway to Elite Roles in Trading, Risk, Data & AI  
(From Beginner to Director-Track)

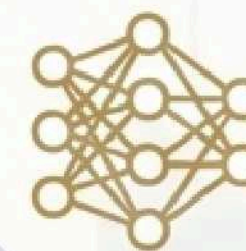
# These Aren't Just Jobs. They're Industry-Defining Roles.



Director / VP – Capital  
Markets Data Engineering



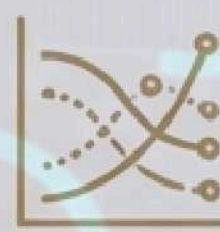
Lead Quant Researcher  
(ABS/ABF/Structured Products)



AI/ML Lead for  
Trading & Risk



Hedge Fund  
Data Engineer



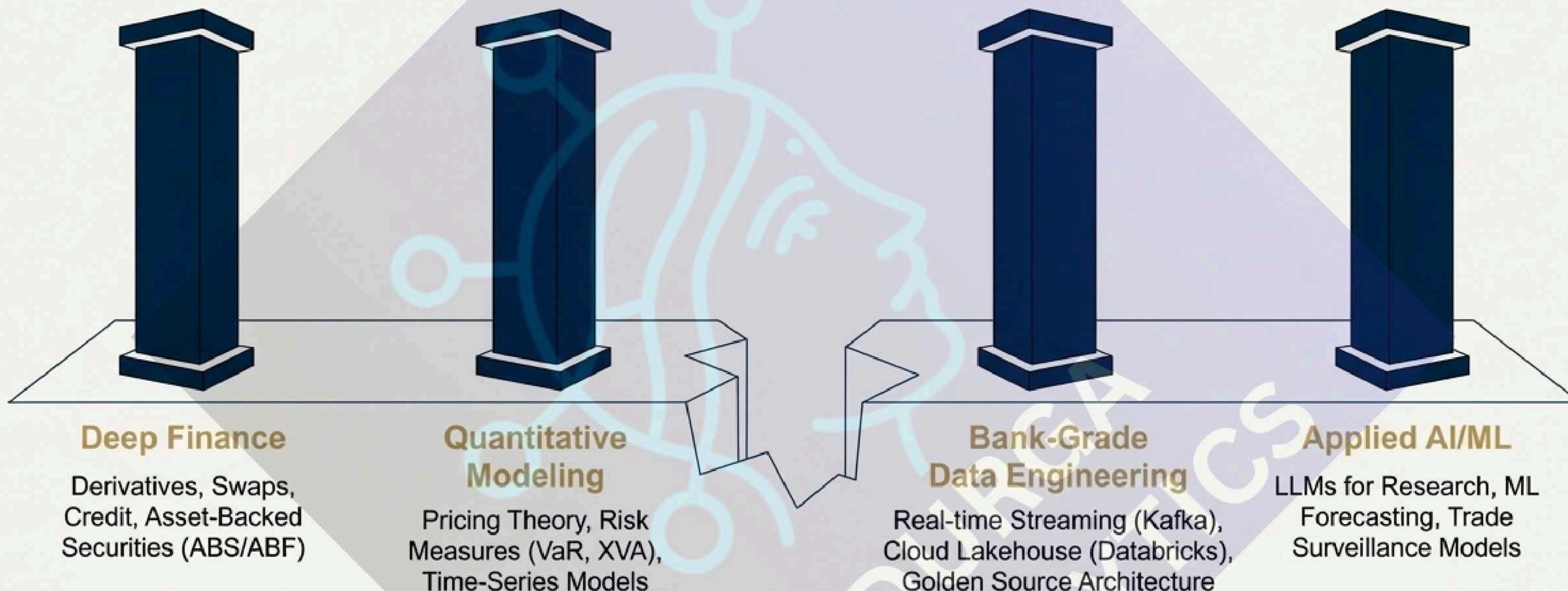
Director – Market Data,  
Curves & Pricing Architecture



Chief Data Officer (Capital  
Markets) – entry pipeline

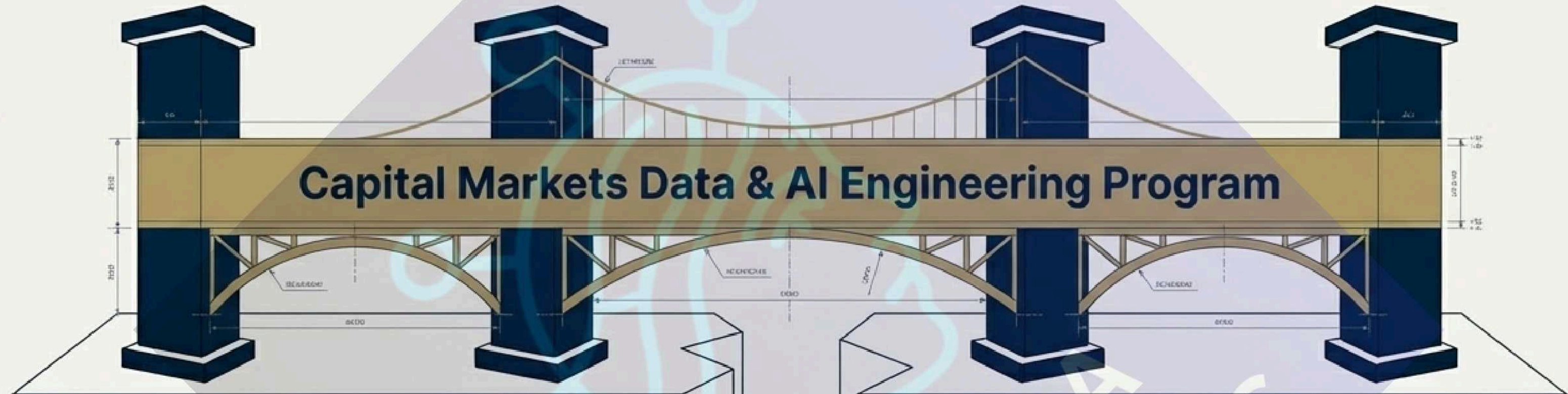
Total Compensation: [#B89B5F\\$500K-\\$900K+212121#](#) | Key Locations: [#B89B5FNYC / SF / Chicago / Houston#212121#](#)  
For: [#B89B5F](#) Top-Tier Banks, Hedge Funds, Prop-Trading Firms#212121#

# Why are these elite roles so difficult to attain? The Expertise Gap.



Success in modern finance demands a unified mastery of these four domains. No university program or standard bootcamp teaches them together. This is the gap that blocks ambitious professionals from reaching the director level.

# We Engineered the Bridge.



## Deep Finance

Derivatives, Swaps, Credit, Asset-Backed Securities (ABS/ABF)

## Quantitative Modeling

Pricing Theory, Risk Measures (VaR, XVA), Time-Series Models

## Bank-Grade Data Engineering

Real-time Streaming (Kafka), Cloud Lakehouse (Databricks), Golden Source Architecture

## Applied AI/ML

LLMs for Research, ML Forecasting, Trade Surveillance Models

The first and only program designed to unify the four critical domains of modern finance. We provide a direct path from foundational knowledge to director-level expertise, end-to-end.

# Your Journey from Foundation to Frontier: A 3-Phase Blueprint



## **Phase 1: Foundations (Modules 0-3)**

**From Beginner to Capital Markets Fluent.** We build your core knowledge of financial products, data architecture, and pricing theory from the ground up.

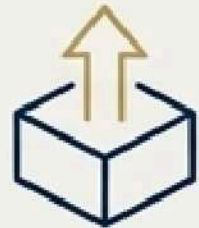
## **Phase 2: Advanced Application (Modules 4-8)**

**Building Bank-Grade Systems & Models.** You will master production-grade quant engineering, trading systems, cloud pipelines, and the high-value domain of structured products.

## **Phase 3: Elite Specialization & Career Launch (Modules 9-12)**

**Becoming a Director-Level Candidate.** We prepare you for the most demanding roles with hedge fund pipelines, career acceleration, and a capstone project that proves your expertise.

# Phase 1: Building an Unshakeable Foundation (Modules 0-3)



## Module 0: Foundations (Beginner Prep)

**Goal:** Take complete beginners to “ready for capital markets”.

**Skills:** Intro to stocks, bonds, derivatives; Python basics; SQL & Cloud fundamentals.

**Project:** Build a simple portfolio tracker.

## Module 1: Financial Instruments Deep Dive



**Goal:** Become fluent in products that banks trade.

**Skills:** Equities, Fixed Income, Swaps (IRS, Cross-Currency), Credit (CDS, ABS/ABF).

**Project:** Build a full product reference dataset in Snowflake.

## Module 2: Capital Markets Data Architecture

**Goal:** Think like a data architect in a bank.

**Skills:** Market data vendors (Bloomberg, Refinitiv), Real-time streaming (Kafka), Data Lakehouse.

**Project:** Build a Market Data Lakehouse on Databricks.



## Module 3: Pricing, Curves & Time-Series

**Goal:** Understand how banks compute prices & risk.

**Skills:** Yield Curve Bootstrapping, Volatility Surfaces, Time-Series Models (GARCH).

**Project:** Build a full yield curve, credit curve, and vol surface in Python.



# Phase 2: Mastering Production-Grade Quant & Trading Systems (Modules 4-5)

## Module 4: Quant Engineering & Python

Goal: Transform into a quant-oriented engineer.

### Key Skills:

- Production-grade Python
- QuantLib, Numpy, Pandas
- Monte Carlo simulations
- Pricing Models: Black-Scholes, HJM, SABR
- Risk Measures: Greeks, VaR, XVA

Project: Build a comprehensive risk analytics engine from scratch.

## Module 5: Trading Systems & Architecture

Goal: Understand how real, multi-million dollar trading systems operate.

### Key Skills:

- End-to-end trade lifecycle (market data → pricing → risk → P&L)
- Architecture of systems like Murex, Calypso, SecDB
- Order Management System (OMS/EMS) design

Project: Simulate an end-to-end trade life cycle for FX & Options.

# The \$900K+ Skill: Deep Dive into Structured Products Modeling (Module 6)

This is the extremely rare content that separates top earners from the rest.

**Goal:** Prepare for high-paying, single-security modeling roles in ABS/ABF.

## Content Focus:

- What you'll model: Asset-backed securities (auto loans, credit cards, mortgages).
- Core Concepts: Collateral performance modeling, loss curves, cashflow waterfalls.

## Your Deliverable: A Full ABS Waterfall Model + Stress Testing Engine



# Phase 2: Building Director-Level Cloud & Data Engineering Expertise (Module 7)

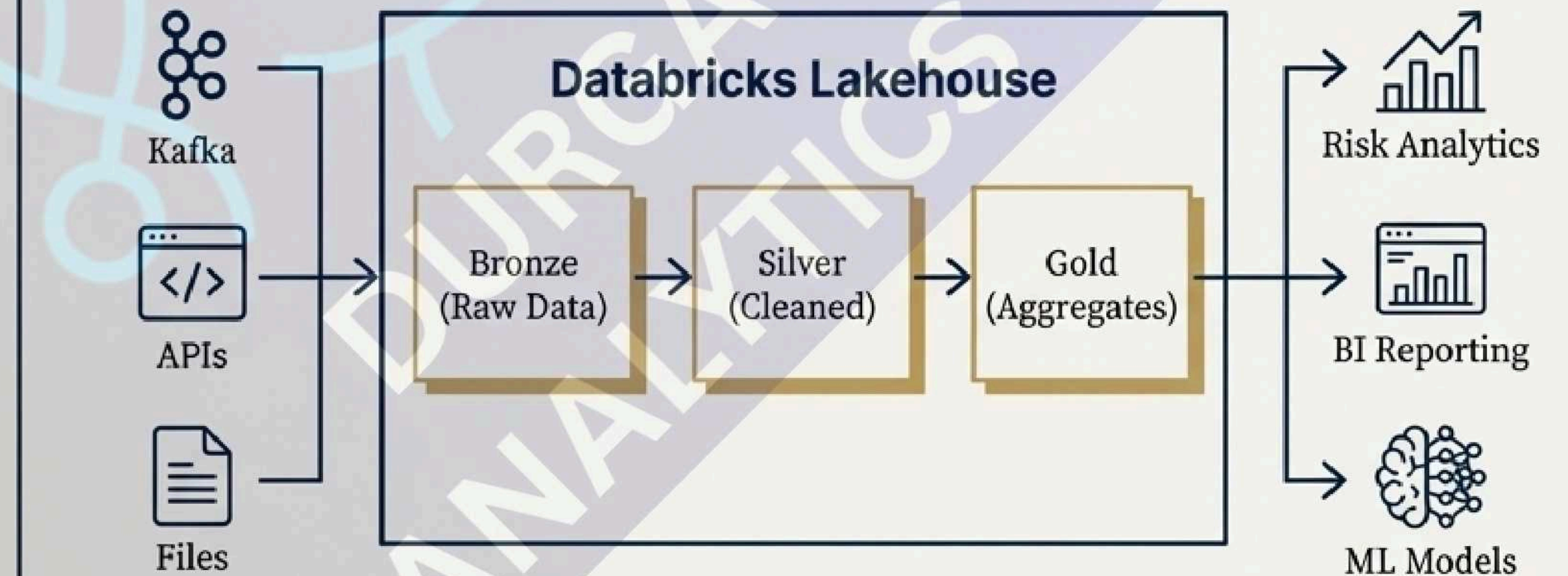
Goal: Become “Director-level” in cloud data engineering for capital markets.



## Core Skills


- Building real-time trade and risk pipelines
- Mastering ETL/ELT patterns and Delta Lake
- Data governance, lineage, and data quality (DQ)
- CI/CD for data applications


**Your Deliverable: An End-to-End Trade, Market, and Risk Pipeline on Databricks**




# The Frontier: Applying AI & LLMs to Trading and Risk (Module 8)

**Goal:** Go beyond theory and apply state-of-the-art AI to real-world capital markets problems.

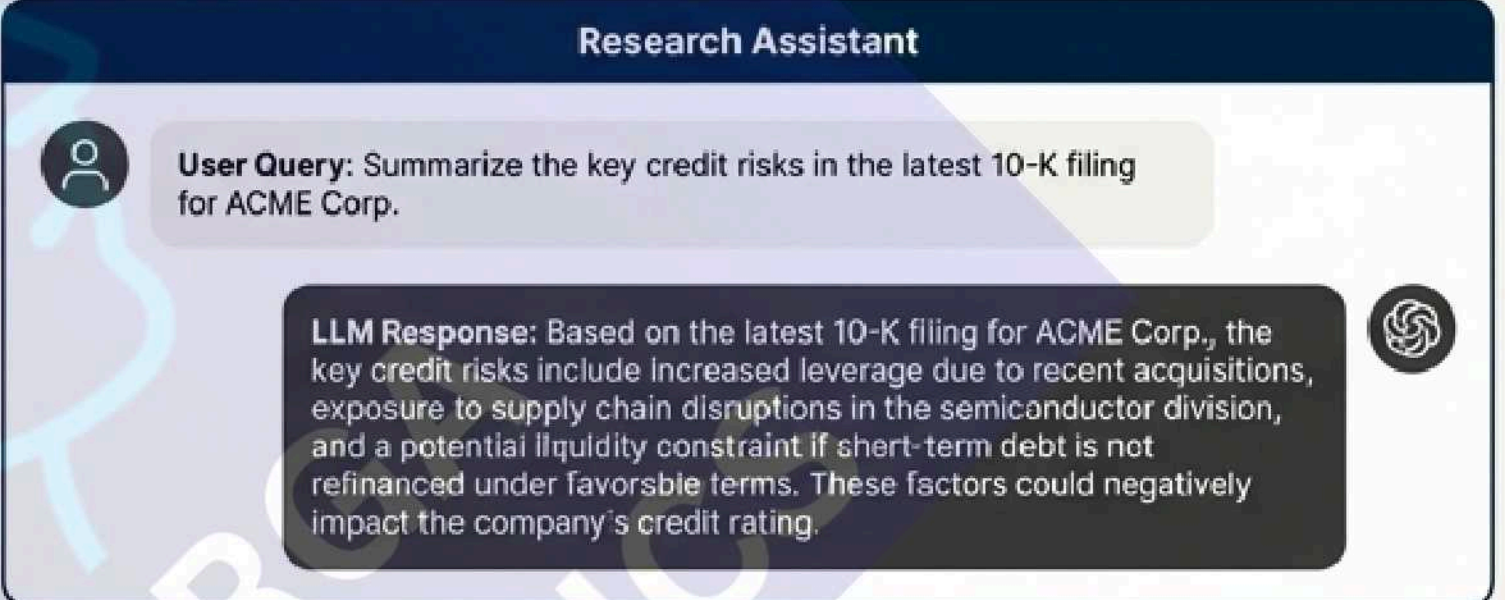
 **LLMs in Banking:** Building research assistants and automating document analysis.

 **ML Forecasting:** Predicting prices and volatility.

 **Risk & Compliance:** Developing models for fraud detection and trade surveillance.

 **NLP:** Extracting insights from unstructured research reports.

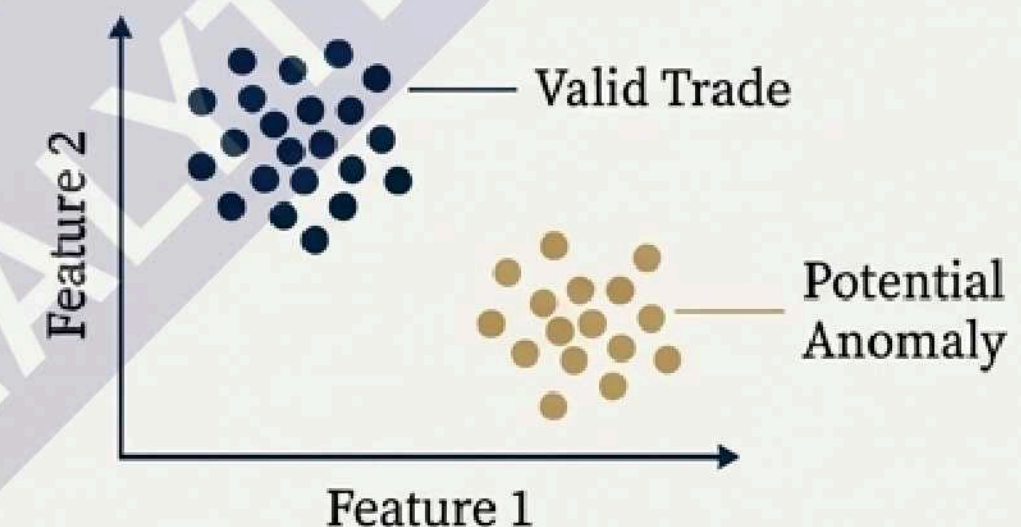
## Your Deliverable: An LLM-Powered Research Assistant + ML Trade Classifier



**Research Assistant**

**User Query:** Summarize the key credit risks in the latest 10-K filing for ACME Corp.

**LLM Response:** Based on the latest 10-K filing for ACME Corp., the key credit risks include increased leverage due to recent acquisitions, exposure to supply chain disruptions in the semiconductor division, and a potential liquidity constraint if short-term debt is not refinanced under favorable terms. These factors could negatively impact the company's credit rating.






# Phase 3: Elite Specialization for Top-Tier Bank & Hedge Fund Roles (Modules 9-10)

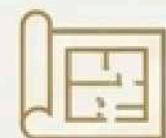
## Module 9: Risk, Regulation & Compliance

**Goal:** Become credible and fluent in the language of regulated, high-paid jobs.

### Key Topics:

-  Basel III/IV, FRTB
-  SOFR transition
-  CCAR stress testing

### Project:






Build a CCAR-compliant stress testing framework.

## Module 10: Full Hedge Fund Pipeline Build

**Goal:** Become job-ready for demanding hedge fund data and quant roles.

### Full System Build:

-  Alpha generation, factor modeling
-  backtesting, portfolio construction
-  and P&L attribution.

### Project:



An end-to-end hedge fund backtesting system in Python.

# Phase 3: The \$900K Career Accelerator (Module 11)

Goal: Make you not just skilled, but employable at the director, VP, and lead quant level.



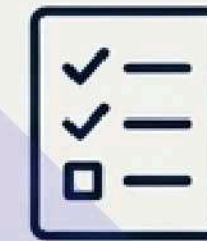
## Your Personal Brand

- Resume frameworks designed specifically for hedge funds & banks.
- Building a portfolio that looks like a senior engineer/quant.



## Executive Communication

- How to talk like a quant and pitch data architecture to executives.
- Understanding compensation structures for \$500K-\$900K+ roles.



## Interview Dominance (Mock Interviews)

- ✓ Quant
- ✓ Data Engineering
- ✓ Trading Systems
- ✓ Risk Management
- ✓ AI/ML Application

# Your Capstone: A Portfolio That Unlocks \$500K+ Roles (Module 12)

You don't just finish with a **certificate**. You finish with a fully-documented, bank-grade platform. This is the asset that gets you hired.

## A Complete Capital Markets Data & Pricing Platform



## Key Deliverables Checklist

- ✓ Professional GitHub Repository
- ✓ Full System Documentation
- ✓ Detailed Architecture Diagrams
- ✓ Published API Docs
- ✓ Functioning CI/CD Pipelines
- ✓ Comprehensive Unit Tests
- ✓ Live Cloud Deployment (AWS)

# Learn From a Cross-Domain Industry Veteran



With 20+ years of experience at firms like JPMC, your mentor has built the exact trading systems, quant models, and data platforms you will master in this program.

## Areas of Proven Expertise



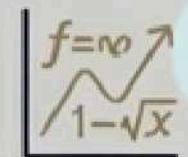
### Trading Systems & ETRM

Designed and built high-frequency trading and risk management systems.



### Data & Cloud Engineering

Led the creation of bank-grade data pipelines on Databricks and Snowflake.



### Quantitative Finance

Developed and implemented pricing models for complex derivatives and structured products.



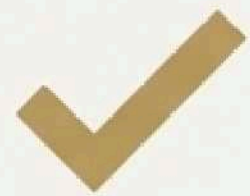
### Applied AI

Deployed machine learning models for trading and risk in production environments.

JPMC



# The Only End-to-End Program of Its Kind. Globally.



## **Industry Insider Design**

Built by a 20+ year veteran, not academics. Learn what top firms actually do.



## **Bank-Level Hands-On Pipelines**

Go beyond theory to build real-world systems on Databricks & Snowflake.



## **Hedge-Fund-Ready Portfolio**

You graduate with a complete backtesting system and a capstone project that proves your skill.



## **Extremely Rare ABS Modeling Content**

Access the specific knowledge that commands the highest salaries in quantitative finance.



## **True Cross-Domain Expertise**

The only program that seamlessly integrates Quant + Data + Cloud + AI.

# A Career Transformation, Not Just a Course

## Base Program: \$2,500

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## Premium Tier: \$3,500

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## VIP Mentorship: \$4,999

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### YOUR INVESTMENT

**\$2,500 – \$4,999**

### POTENTIAL FIRST-YEAR RETURN

**\$500,000 – \$900,000+**

This is the highest-leverage investment you can make in your career.


# Ready to Build Your \$500K+ Director-Track Career?

Take the first step towards joining the top tier of finance professionals. Choose your path below.

**ENROLL NOW**

**SCHEDULE AN  
INFO CALL**

**DOWNLOAD THE  
FULL SYLLABUS**

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 [contact@durgaanalytics.com](mailto:contact@durgaanalytics.com)

