Gen AI in Finance: Unlocking the Power of Automation & Insights

Economic Impact of AI in Finance:

The McKinsey Global Institute estimates that generative AI could add between $200 billion and $340 billion annually to the global banking sector, accounting for approximately 2.8% to 4.7% of the industry's total revenues.

[mckinsey.com](https://www.mckinsey.com/industries/financial-services/our-insights/scaling-gen-ai-in-banking-choosing-the-best-operating-model?utm_source=chatgpt.com)

Adoption and Implementation:

A survey conducted by McKinsey in May 2023 revealed that nearly 22% of CFOs were actively exploring generative AI applications within their finance functions, with an additional 4% engaged in pilot programs.

[mckinsey.com](https://www.mckinsey.com/capabilities/operations/our-insights/generative-ai-in-finance-finding-the-way-to-faster-deeper-insights?utm_source=chatgpt.com)

Productivity and Automation:

Generative AI has the potential to automate up to 70% of business activities across various occupations by 2030, potentially adding trillions of dollars in value to the global economy.

[cfodive.com](https://www.cfodive.com/news/testing-ai-in-the-finance-function-mckinsey/700332/?utm_source=chatgpt.com)

Challenges and Considerations:

Despite its potential, only 6% of retail banks are prepared to implement AI at scale, primarily due to concerns over job displacement, regulatory compliance, and institutional inertia.

[ft.com](https://www.ft.com/content/0675e4d9-62a1-4d6c-9098-a8cb0d1e32ed?utm_source=chatgpt.com)

This 15 hours hands-on workshop spread across 5-days explores the transformative impact of Generative AI in the financial sector. Participants will gain practical insights into leveraging AI-powered tools such as ChatGPT, Claude, and Google Colab for financial analysis, automation, and decision-making. With real-world case studies from leading financial and energy organizations, the workshop will equip students with the skills to harness AI for data processing, predictive analytics, and strategic finance applications.

**Key Learning Outcomes:**

* Understand the fundamentals of Generative AI and its role in finance.
* Learn to use AI tools like ChatGPT, Claude, and Google Colab for financial tasks.
* Apply AI for sentiment analysis, web scraping, ETL, and financial data visualization.
* Explore AI-driven stock trading strategies and risk management.
* Develop AI-powered solutions for fraud detection, credit risk assessment, and portfolio optimization.
* Gain hands-on experience with automation in financial decision-making.

**Day-Wise Plan**

**Day 1: Introduction to AI in Finance**

**Topics Covered:**

* Overview of AI & Machine Learning in Finance
* Introduction to Generative AI: ChatGPT, Claude, and Google Colab
* Understanding Financial Data: Structured vs. Unstructured Data
* Data Preprocessing and Cleaning in Python
* Hands-on: Setting up Google Colab and working with financial datasets

**Case Study:** How AI is transforming financial services at IndusInd Bank

**Activity:** Exploratory Data Analysis (EDA) on financial datasets

**Day 2: AI for Market Analysis & Sentiment Detection**

**Topics Covered:**

* Understanding Sentiment Analysis in Finance
* Web Scraping Financial News and Social Media Data
* NLP Techniques for Extracting Market Sentiment
* Using AI to Analyze Financial Reports
* Hands-on: Implementing sentiment analysis on real-time financial data

**Case Study:** AI-driven market sentiment analysis at Shell

**Activity:** Build a sentiment-based stock trading strategy

**Day 3: AI in Trading & Investment Strategies**

**Topics Covered:**

* Predictive Modeling for Stock Prices
* Machine Learning in Algorithmic Trading
* Backtesting AI-driven Trading Strategies
* Portfolio Optimization using AI
* Hands-on: Implementing a stock price prediction model

**Case Study:** How AI-powered stock trading is reshaping asset management

**Activity:** Simulate an AI-driven trading strategy

**Day 4: AI for Risk Management & Fraud Detection**

**Topics Covered:**

* AI in Credit Risk Assessment
* Fraud Detection Techniques using AI
* Real-time Anomaly Detection in Financial Transactions
* AI in Compliance and Regulatory Reporting
* Hands-on: Implementing an AI model for fraud detection

**Case Study:** Fraud detection and risk assessment at SBI

**Activity:** Build an AI-based credit scoring model

**Day 5: Automation & The Future of AI in Finance**

**Topics Covered:**

* AI-powered Financial Chatbots & Customer Service Automation
* Automating ETL Processes in Finance
* AI for Financial Report Summarization
* The Future of AI in Finance: Trends & Career Opportunities
* Hands-on: Deploying an AI-powered financial assistant

**Case Study:** AI automation in finance at Renew Power

**Activity:** Develop and present an AI-powered finance project

**Final Takeaways:**

* Certification of Completion
* Access to Code and Datasets Used
* Guidance on Career & Industry Applications

This workshop is designed for students looking to upskill in the fast-growing field of AI-driven finance. Get ready to unlock the power of automation and insights with Generative AI!

Trainer Profile



Havish is Founder at Havish M Consulting is an award-winning analytics firm, a member of Microsoft Partner Network, NASSCOM and CII.

They have delivered 1500+ workshops and 150+ projects across 45+ clients across India, MENA and North America.

Havish was listed as a 40u40 Analytics, and has received Indian Achievers Award. He is a PGP Gold Medalist and was conferred the Distinguished Alumni Award.

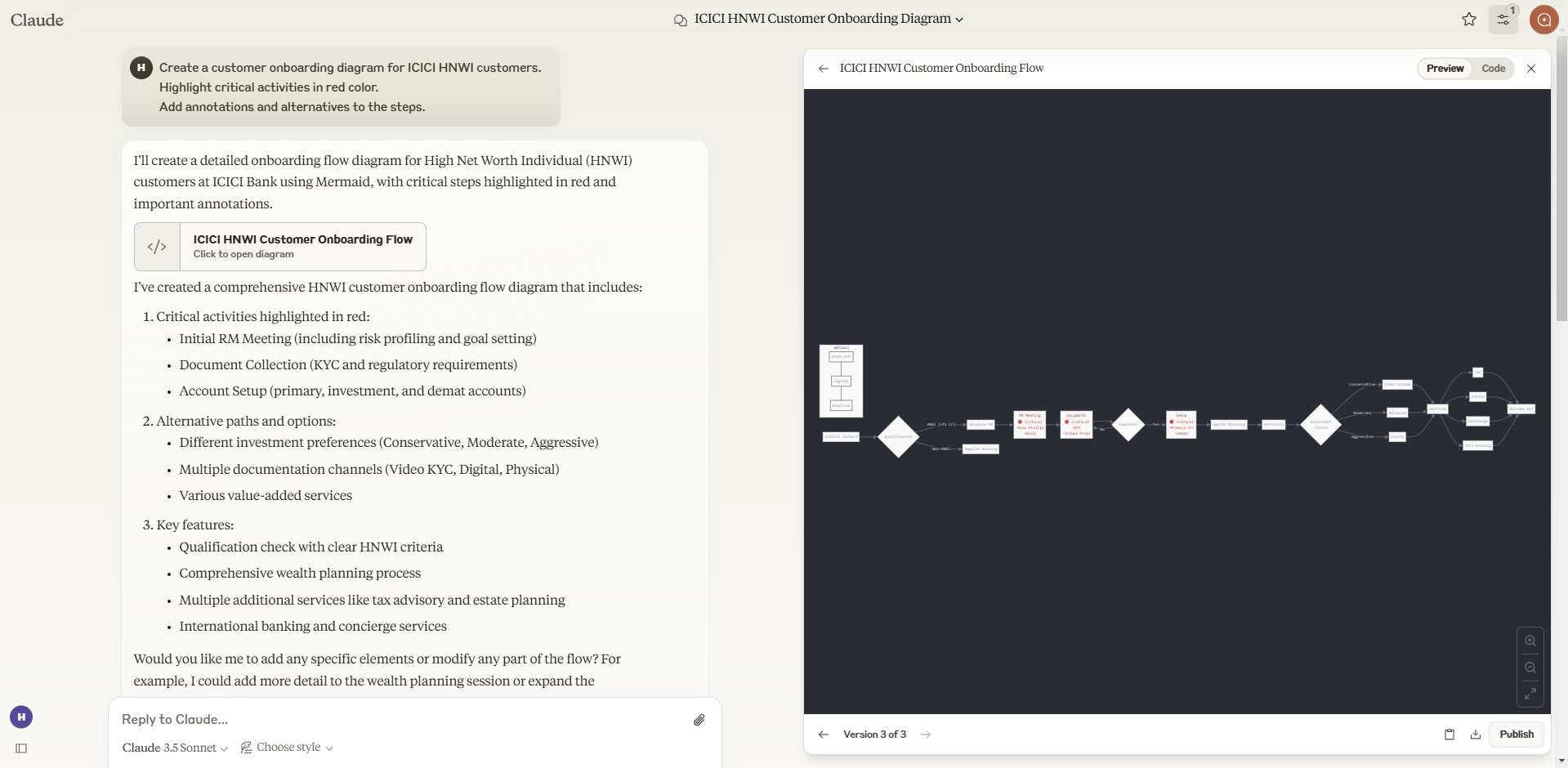
Havish is consulting clients on Generative AI and Digital Transformation. He has contributed to research work and publications for the World Bank, SEBI, Ministry of Tourism, Skill India etc.

He conducts workshops at IMT Ghaziabad, Shriram College of Commerce, Masters’ Union.

His online courses has 50000+ learners and YouTube channel has 1400+ videos, 7000+ subscribers and 2.5+ lakh views across 10000+ hours.

Havish M Consulting has partnered with 100+ events in BSchools as event analytics partners / speaker / judge.

Examples



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AI-generated content may be incorrect.A screenshot of a computer

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AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer program

AI-generated content may be incorrect.