

LEVEL 1: FINTECH PRIMER - 16 HOURS

BATCH LAUNCH	Introduction to the Course Program Curriculum Learning Methodology Guest Lecture by Rise Mumbai Leadership
FINANCIAL MARKETS OVERVIEW	Equity Debt FX Derivatives Futures and Options
BANKING LANDSCAPE	Overview of Retail Banking, Investment Banking, Insurance and Asset Management Services Key Players Emerging Trends
INTRODUCTION TO FINTECH	What is FinTech? Why the Hype? Market Size and Potential FinTech Hubs The History of Fintech Technology: Blockchain, Wearables and Other Emerging Technologies Big Data 102 and Artificial Intelligence 102
FINTECH – BREAKING THE FINANCIAL SERVICES VALUE CHAIN	Overview of FinTech Disruptions in the area of Payments, Wealth Management, Investments, Lending, Reg Tech and Insurance Tech

LEVEL 2A: DEEP DIVE - BLOCK CHAIN - 30 HOURS

PRIMER ON BLOCK CHAIN AND CRYPTOCURRENCY	History of Ledgers, Financial Institutions and Accounting Practices Decentralised Ledger Concepts, Principles and Business Rules The Basics of Block Chain Technology and how it Fits the Model of a Decentralised Ledger Blockchain Technology Stack
BLOCK CHAIN ADVANCED CONCEPTS	Blocks Mining Consensus Distributed Databases Ethereum Smart Contracts Security
CRYPTOCURRENCIES	The First Blockchain Use Case: Bitcoin Cryptocurrency: Why it was Needed Cryptocurrencies & Altcoins Blockchain Frameworks Bitcoin, Ethereum, Hyperledger Fabric
BLOCKCHAIN IMPLEMENTATION	As a Financial System For Provenance Tracking For Interorganisational Record For Multi-party Aggregation
USE CASES IN FINANCIAL SERVICES	Use of Block Chain based systems for: Speeding Up and Simplifying Cross-border Payments Smart Assets in the Trade Finance Supply Chain The Future of Share Trading Smart Contracts Improving Online Identity Management
HANDS-ON WITH BLOCK CHAIN	Developing a Framework to Identify Blockchain Implementations Helping participants to identify use-cases within their organisations through a framework
STARTUPS PRESENT	Startups in FinTech Present their Success Stories in Implementing Block Chain Framework as well as Challenges and Lessons Learnt

LEVEL 2B: DEEP DIVE - ANALYTICS AND MACHINE LEARNING - 40 HOURS

OVERVIEW OF ANALYTICS	Data Analysis vs Data Analytics Encompassing Role of Analytics in the Modern World Types of Analytics: Descriptive, Diagnostic, Predictive, Prescriptive Moving Up the Value Chain Data Analytics and Ethical Issues
BASICS OF STATISTICAL ANALYSIS	Descriptive and Inferential Statistics Mean/Median/Mode Standard Deviation/Covariance/Correlation
BASICS OF PYTHON FOR DATA ANALYSIS	Installation of Anaconda Data Types and Functions Data Manipulation and Preparation
DATA VISUALIZATION IN PYTHON	Presenting insights in pictorial form to improve the quality and speed of people's decision-making (for example, the visualization of trading patterns to identify instances of market abuse).
SENTIMENT ANALYSIS	Discerning sentiment from structured and unstructured data (for example, sentiment toward specific stocks or market sectors).
INTRO TO MACHINE LEARNING	What is Machine Learning Evolution and Trends Application of Machine Learning Best Practises of Machine Learning Machine Learning in 2025

MACHINE LEARNING ALGORITHMS	Classification Regression Forecasting Clustering
NEURAL NETWORKS	Perceptron Learning Backpropagation Learning Object Recognition
DEEP LEARNING - KERAS	Setting up KERAS Creating a Neural Network Training Models and Monitoring Artificial Neural Networks
USE CASES IN FINANCIAL SERVICES	Risk Management, Investment Predictions Credit Scoring, Customer Acquisition. Credit Underwriting and Portfolio Monitoring Digital Assistants and Network Security
CASE STUDIES ON AI AND ML IN FINANCIAL SECTOR	Case study on Machine Learning powered by Rise Mumbai
STARTUPS PRESENT	Startups in FinTech Present their Success Stories in Implementing Machine and Deep Learning

LEVEL 2C : DEEP DIVE - ROBOTIC PROCESS AUTOMATION - 28 HOURS

ROBOTIC PROCESS AUTOMATION: A PRIMER	Automation Spectrum What is RPA? RPA vs Traditional Automation Applications of RPA What Else can RPA do?
RPA IN DEPTH	How Does RPA Work? RPA Lifecycle RPA Products in the Market Robotic Process Automation Tools Impact of RPA in the Outsourcing Industry UiPath Demos
PROCESS ASSESSMENT	Reviewing a Process Getting the Most of Automation Measurements & ROI Evaluate Automation Partners
IMPLEMENTATION	Feasibility Assessment Infrastructure Requirements System Access IT Support and Management What to Take Away from RPA?
THE ROAD AHEAD	What Else can RPA do? The Search for ROI Governance Matters Robots that Learn - Intelligent Process Automation (IPA)
CASE STUDIES ON RPA IN FINANCIAL SECTOR	Case study on RPA, powered by Rise Mumbai
STARTUPS PRESENT	Startups in FinTech Present their Success Stories in Implementing RPA as well as Challenges and Lessons Learnt

LEVEL 3: DESIGN THINKING AND EXPERIENTIAL LEARNING - 11 HOURS

DESIGN THINKING	What is Design? Various Design Processes What is Design Thinking? New Innovative Thinking to New Problems Design Thinking Mindset Service Design Lean & Agile Methodology Stages of Design Thinking
MENTORSHIP	Mentorship Sessions - 2 Half Hour Sessions with Industry Experts for 1:1 Mentorship as Per Your Convenience
GUEST LECTURES	We Invite Global Leaders And Trendsetters in various Fields of Fintech to Talk about Industry Trends and Challenges

CAPSTONE PROJECT

The Prodegree culminates with a capstone project designed to encourage participants to think critically, solve organizational challenges, and make a presentation in front of their peers and Rise Mumbai leadership.

- PICK A FINTECH DOMAIN THAT EXCITES YOU
- PERFORM AN ANALYSIS OF A COMPANY
- IDENTIFY AREAS & USE CASES FOR IMPLEMENTATION
- DEVELOP A FRAMEWORK & BUSINESS MODEL
- CREATE A PITCHBOOK PRESENTATION TO GET YOUR IDEA APPROVED