

FINTECH PRODEGREE

Knowledge Partner:

**rise
mumbai**

Created by

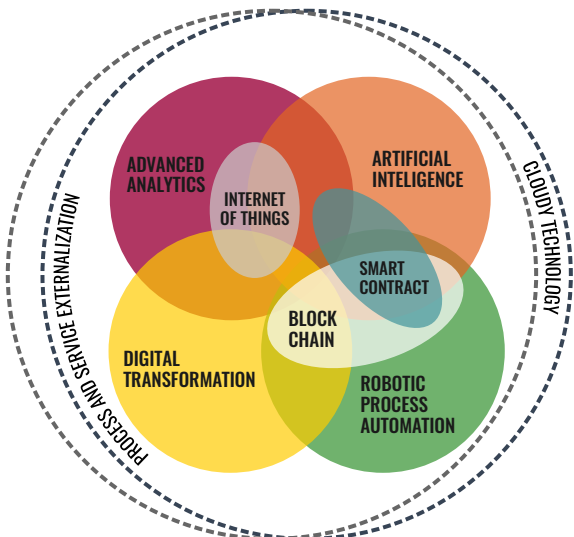
 **BARCLAYS**

www.imarticus.org

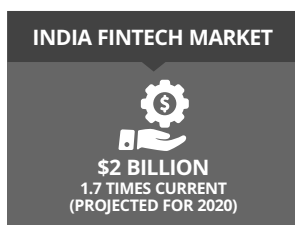
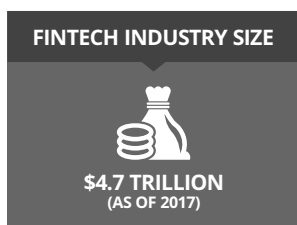
INDUSTRY LANDSCAPE

FinTech covers technology-enabled business model innovation in the financial sector through disintermediation. It is currently disrupting and blurring industry boundaries to revolutionize how firms create and deliver products and services and provide new gateways for entrepreneurship and seed opportunities for inclusive growth.

NINE TECHNOLOGY-ENABLED TRENDS THAT SUPPORT INNOVATION



GROWING DEMAND



EMPLOYMENT LANDSCAPE

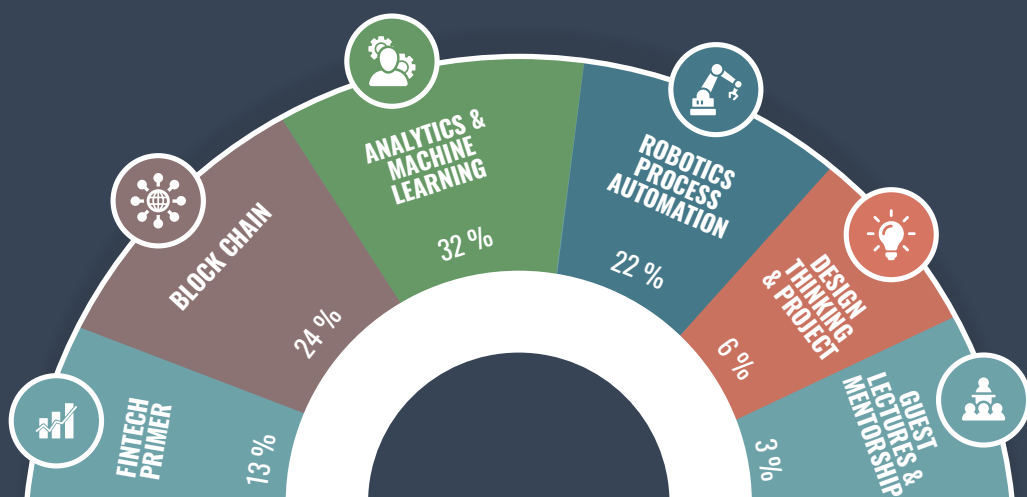
- Paytm
- Bank Bazaar
- FreeCharge
- Let's Talk Payments
- Capital Float
- Razorpay
- Instamojo
- MobiKwik
- Mswipe
- Ispirt
- LendingKart

THE ESTABLISHMENT

95% of Indian Financial Institutions expect to partner with FinTechs in FY17-18 to boost innovation
- PWC

OVERVIEW OF PROGRAM

The FinTech Prodegree, with Rise Mumbai as the Knowledge Partner, is a 125-hour online program designed for those who want to experience, engage with and embrace the disruption FinTech is bringing to the global economy.



125 HOUR PROGRAM AVAILABLE IN ONLINE DELIVERY FORMAT

CURRICULUM

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

CURRICULUM

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

KEY HIGHLIGHTS



COMPREHENSIVE COVERAGE

The 125 Hours training program provides a comprehensive understanding of four key FinTech Domains: Block Chain, Robotic Process Automation, Advanced Analytics and Machine Learning. The well-rounded curriculum also includes a Finance Primer and Design Thinking.

ENDORSED BY RISE MUMBAI

The program is co-created with Rise Mumbai as the Knowledge Partner and comes with a cutting edge industry-aligned curriculum that is vetted by India's leading FinTech accelerator.



2-MONTH INTERNSHIP AT RISE MUMBAI

Interested candidates can enrol for an optional 2-month internship at Rise Mumbai where they get the opportunity to work hand-in-hand with budding FinTech entrepreneurs on projects and receive feedback and mentorship.

FACULTY

Our Prodegree combines the best of Academic and Industry Expertise and the program will be taught by Academics from Global B-Schools as well as Indian and global FinTech entrepreneurs. Startups from Rise Mumbai will have periodic interaction with each batch.



24/7 LEARNING

Our state of the art online portal provides 24/7 access to your study material, learning aids and tests. Stay in touch with fellow learners and faculty for continued learning and support.

CASE STUDY METHODOLOGY

The Prodegree provides an edge through our unique case study methodology, focusing on real life business scenarios.

BLOCK CHAIN

- Speeding Up and Simplifying Cross-border Payments
- Smart Assets in the Trade Finance Supply Chain
- Share Trading
- Smart Contracts
- Online Identity Management

ADVANCED ANALYTICS & ML

- Credit Scoring
- Customer Acquisition
- High Frequency Trading
- Fraud Detection
- Risk Management
- Investment Predictions

ROBOTICS

- Client Onboarding
- KYC
- Post Trade Operations
- Financial Control
- Regulatory Reporting

FACULTY

MANOJ KANKARIA

Specialization: Market and Credit Risk, Prime Margin Technology - Barclays

Manoj currently heads Market Risk, Credit Risk and Prime Margin Technology for Barclays India. His main mission is to create an integrated front to back risk offering with a strong focus on organizational development. In 2015, Manoj was featured in 'Million Stories' for delivering innovative solutions to bring efficiency in the operational business processes in the bank. Manoj has completed his engineering and management degree from the University of Pune.

SHRIKANT EKBOTE

Specialization: Design Thinking - Barclays

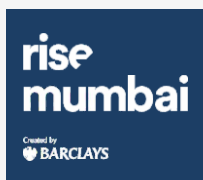
Shrikant comes with 20+ years of experience and currently leads a team of UX designers for the Investment Banking division at Barclays Technology Center India, where they are improving the user experience of very complex and specialized software applications used by IBs. He also has worked in the telecom and automotive domains. He has completed his Masters in Product Design from Industrial Design Center at I.I.T., Bombay.

AKASH BHATIA

Specialization: Artificial Intelligence

Akash is the Founder of Infinite Analytics and has over 14 years of experience in technology, e-commerce and analytics. Prior to Infinite Analytics, Akash co-founded India's first and largest ticketing company, KyaZoonga in 2006. Prior to KyaZoonga, Akash was an engineer with Oracle/PeopleSoft in Silicon Valley. He has completed his B.E from College of Engineering, Pune, holds an M.S from University of Cincinnati and an MBA from MIT Sloan.

COLLABORATION WITH RISE MUMBAI



Rise Mumbai, created by Barclays, connects India to the global FinTech community. Rise is an open innovation platform for experimentation and scaling FinTech, which operates in seven of the world's top FinTech ecosystems. It is a global community of the world's top innovators working together with Barclays to create the future of Financial Services.



COGNITIVE CLASS - IMMERSIVE LEARNING

Rise Mumbai has shared real-world case studies which will provide unique insights into the world of FinTech and its applications across multiple domains



PROGRAM DELIVERY

The program will be delivered by Imarticus along with Rise Mumbai leadership and startups to ensure a judicious blend of theoretical input and real world application



ACCESS TO RISE MUMBAI

Candidates can apply to the Rise Mumbai internship program or other available programs like Rise Accelerator to receive technical support and mentorship.

ONLINE DELIVERY FORMAT



LIVE VIRTUAL CLASSES

Live instructor-led virtual classes with expert faculty for real-time learning as per your convenience
125 Hour Weekend Program for Working Professionals

OUR CAMPUSES



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