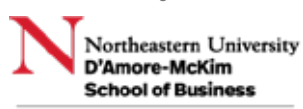# Diploma in Advanced Finance and Analytics (DAFA)

Quantitative Finance | Analytics | Fintech

A first of its kind industry integrated programme to prepare working professionals for next-gen challenges in the world of Finance

Offered by

KREA university

Powered by

N Northeastern University
D'Amore-McKim
School of Business

Curriculum & Experience powered by Northeastern University

Prepare for the future in Finance

Duration:
12 Months

Delivery:
Fully Online

Specialisations:
1. Financial Analytics & Fintech
2. Quantitative Finance

Diploma Offered by:
Krea University

Start:
18 February 2022

Eligibility:
Working professionals with 3+ years of experience

The **Diploma in Advanced Finance and Analytics (DAFA)** is a rigorous industry-relevant professional development programme that addresses knowledge and skills required for finance of the future. Drawing from global best practices and contemporary concepts, the programme is co-designed by IFMR Graduate School of Business at Krea University and the prestigious D'Amore-McKim School of Business at Northeastern University.

The DAFA incorporates a compulsive range of concepts, applications and tools across finance, analytics and technology. This is a compelling programme for every professional seeking to advance into challenging roles within the finance domain. Additionally, this programme supports the growth needs of finance-focused organisations who are looking to develop a globally competitive talent pool. As a fully online programme, the DAFA provides a flexible learning environment for working professionals looking to manage their current work priorities and future growth ambitions, with equal ease.

> The DAFA programme jointly curated by leading academicians and practitioners from around the world will help shape a generation of professionals and address the acute skill gap globally. It will also help a large canvas of stakeholders—including governments, corporations and individuals—address some of the most compelling issues in finance including inclusion, security, risk management, governance and trust.

N Vaghul
Chancellor - Krea University
Former Chairman of ICICI Bank Ltd

The DAFA Advantage

Next generation financial services in India is set to grow at US$335 billion by 2030. This growth will primarily be driven by a high level of quantitative analytics and technology interventions.

The Diploma in Advanced Finance and Analytics (DAFA) is a first of its kind programme that interweaves financial concepts, financial analytics and financial technology. The programme content and pedagogical approach has been designed with inputs from academics and cutting-edge practitioners from the world of finance.

Strengthen
Conceptual Foundations in Finance

The curriculum offers a strong grounding in core and critical financial concepts to ensure participants from different backgrounds have strong fundamentals prior to specialisation tracks.

Learn to Leverage Data and Technology

Leverage new-age functions such as Machine Learning, AI for financial modelling, and understand algorithms for cross-functional decision-making.

Sharpen
Finance relevant quantitative Skills

A comprehensive but rigorous coverage of basic and advanced mathematical and statistical measures, and its application with financial data.

Apply
Financial Tools and Models

A strong application-oriented curriculum and approach. Functional understanding of tools and models used across Banking, Trading, Equity, Hedge Funds, Insurance and related tech domains.

Why DAFA?

Co-designed by pioneers in finance education

Get trained in meeting the challenges of the transforming financial sector landscape through a professional development programme, co-designed by two of the finest global institutions in finance education- IFMR GSB at Krea University and D'Amore-McKim School of Business at Northeastern University.

Guided by exemplary global faculty

Evolve alongside the financial world disruption mentored by experts from the field of Finance education, who come with decades of experience in concept and practice. DAFA includes academic sessions, projects, and guest lectures from academia and industry practitioners.

Interwoven pedagogy for tomorrow

Gain the right mix of theory and practice to offer model solutions to real-world complex challenges.

> ### Strengthen the fundamentals
> Attain a strong grounding in core and critical financial concepts, ensuring participants from different backgrounds have strong fundamentals prior to specialisation tracks.
> ### Technical and Quantitative Rigour
> Leverage data and technology through in-depth understanding of new-age functions such as Machine Learning, AI for financial modelling, and algorithms. Sharpen quantitative skills with rigorous knowledge delivery on basic and advanced mathematical and statistical measures.
> ### Application oriented curriculum
> Apply financial tools and models through an application oriented curriculum with understanding of tools and models used across Banking, Trading, Equity, Hedge Funds, Insurance and enabling tech domains.

Access new-age career opportunities in Finance

The Fintech market in emerging countries is expected to boost the GDP to $3.7 trillion by 2025 and create 91 million jobs in the next four years*. Get moulded into an analyzer, innovator or disruptor. Position yourself as a suitable candidate for futuristic roles in the world of Finance.

Network with global industry leaders

Network and get mentored by the best across the globe. Tap into IFMR GSB's network of 20000+ alumni spread across two decades of the school's history.

Virtual delivery at par with physical classrooms

Bringing the best of the real world into the digital classroom, IFMR GSB comes with a robust experience of digital delivery of classes. Each class is immersive, upholding quality education ethos, and is thoughtfully curated bearing in mind the schedules of working professionals.

Learn alongside a high potential peer community

Co-learn with experienced and early age professionals from varied backgrounds handpicked through a rigorous selection process. DAFA offers the advantage of a promising career in Finance to learners spread across the professional spectrum, irrespective of their prior knowledge or specialisation.

Sources: McKinsey Global Institute report

Guided by exemplary leadership

N Vaghul
Chancellor - Krea University
Former Chairman - ICICI Bank Ltd

Mahesh Rangarajan
Vice-Chancellor
Krea University

Rajiv Memani
Chairman, CEO
EY India

Raghuram G. Rajan
Former Governor
Reserve Bank of India

R Seshasayee
Former Chairman
IndusInd Bank

D. Sundaram
Vice Chairman & MD
TVS Capital Funds Ltd

Paula Mariwala
Executive Director
Seedfund Advisors

Rajeev Mecheri
Managing Director
Mecheri Smart Capital Pvt Ltd

S. Mahalingam
Former Chief Finance Officer
& Executive Director
Tata Consultancy Services

Raghu Sundaram
Dean
NYU Stern School of Business

Anu Aga
Former Chairperson
Thermax Ltd

Who should apply?

Working professionals (or entrepreneurs) with minimum 3 years of work experience

Seeking to progress careers in Finance domains demanding skills in Quantitative Finance, Financial Analytics, Risk Management and Fintech applications

Considering to switch careers and explore diverse roles within the growing Finance-related verticals

Suited for various roles including (not limited to)

- Financial Analyst
- Equity Analyst
- Financial Modeler
- Investment Banker
- Risk Analyst
- Fintech Entrepreneur
- Financial Consultant
- Securities Broker
- Financial Accountant
- Chartered Accountant
- Investment Advisor
- Technology provider to Finance domains

The DAFA
Learning Outcomes

Understand

- Impact of financial analytics and technology on the business or clients' business
- Market functions to assess risks and returns. Visualise and build models using analytical techniques to solve complex business challenges
- Various themes within the Fintech ecosystem and examine how Fintech disruption influences multiple industries

Learn

- To evaluate analytical models or tools and interpret the analysis for decision-making in pricing, hedging, portfolio management and similar functions
- Concepts and techniques for analysis of financial data useful within various capital and investment management functions

Apply

- Latest fintech tools and models to solve real-life business challenges
- Machine Learning concepts to address problems in the finance domain
- Develop and validate sophisticated risk and pricing models used in the industry for financial engineering and quantitative risk management
- Deep dive into mathematical and statistical models to create and test hypothesis for financial trading strategies

"

Our two schools have worked together to design a program built on the combined expertise of both institutions. Infusing a strong academic program in finance with an integrated experiential education preparing students for the challenges they will face throughout their careers.

Kate Klepper
Associate Dean
Graduate Programs
D'Amore-McKim School of Business

The DAFA Curriculum

The immersive learning experience comes with an intensive application-oriented curriculum. The programme strengthens the foundation in core financial concepts and other prerequisite skill sets such as programming, mathematics and statistics before leading the learner into a rigorous and advanced understanding of financial analytics and fintech, and quantitative finance.

130 hours — Conceptual Foundations in Finance (Compulsory core courses)

- Financial Accounting
- Corporate Finance
- Foundations of Mathematics and Statistics
- Programming for Finance
- Introduction to Fintech
- Financial Markets & Institutions
- Introduction to Machine Learning
- Investment Analysis
- Financial Career Lecture Series

190 hours — Financial Analytics & Fintech (Specialisation track)

- Simulation Techniques for Finance
- Machine Learning For Finance
- Interest Rates and Bonds
- Regression and Time-Series Modelling
- Advanced Machine Learning for Finance
- Fintech Industries Structure
- Fintech Disruption
- Data Security & Regulation
- Financial Services & Analytics
- Futures, Options and Swaps
- Financial Forecasting

190 hours — Quantitative Finance (Specialisation track)

- Simulation Techniques for Finance
- Machine Learning For Finance
- Interest Rates and Bonds
- Regression and Time-Series Modelling
- Applied Probability for Finance
- Mathematics for Finance
- Applied Stochastic Processes in Finance
- Stochastic Methods in Finance
- Mathematics for Derivatives
- Credit Derivatives
- Finite Difference Techniques

Core Faculty

Balasubramanian G

Senior Professor, Advisor - Finance and Accounting
IFMR GSB at Krea University

- More than three decades of experience in executive training, teaching, consulting and research in Accounting, Finance and Information Technology
- Has trained more than 1000 executives across multiple organisations covering both private and public sector
- Some of his most sought after courses are Finance for Managers and Financial Modeling

Samir Ranjan

Professor
IFMR GSB at Krea University

- Has an MS in Mathematical Finance from Columbia University, New York, a PhD in Theoretical Physics from Purdue University, Indiana
- Well known and sought after for his expertise in Mathematical Finance
- He was invited by CRISIL for a three-month consultancy, where he worked with a team engaged in Quantitative Research

Doug Lowenstein

FinTech Advisor

D'Amore McKim School of Business at Northeastern University

- Over 25 years of FinTech and consumer financial services experience
- Spent more than 11 years with Capital One as a senior strategy executive
- Also served as head of Strategy and was a member of the senior leadership team for Capital One's Global Financial Services (GFS) division

Anand Venkateswaran

Associate Professor – Finance

D'Amore McKim School of Business at Northeastern University

- Has a PhD in Finance from Georgia State University
- Research focuses on empirical corporate finance with emphasis on incentives of economic agents
- Prior to starting his doctoral studies, he worked as an investment banker for five years
- Refereed for Journal of Financial Research and Journal of Financial Education

Krishnan Chidambaram

Director - Financial Assistance, Senior Advisor
IFMR GSB at Krea University

- A former senior banking professional with specialisation in Corporate Banking, Credit & Enterprise Risk Management. His work experience includes senior management roles in MNC banks in India, UK, Australia and the Middle East
- Brief stints in Tata Consultancy Services as their Head-Risk Management in the Banking & Financial Services Industry (BFSI) vertical and a specialized Risk Management Consultancy company, Aptivaa Consulting Co

Application Process

Step 1
Visit www.krea.edu.in/dafa

Step 2
Complete the online application form

Step 3
Attach supporting documents

Step 4
Submit completed application form in the application portal

Selection Process

Applicants will be shortlisted based on their profile and the eligibility criteria. The shortlisted candidates will be invited for a video interview with select panelists at Krea University. The final list of selected candidates will be announced based on their performance in the video Interview.

Programme Delivery

The total duration of the programme will be 320 hours, of which core modules will be about 130 hours. Participants will spend 6-7 hours every week for Contact sessions. There will be continuous evaluation and a final one in each course as decided by the faculty. On successfull completion of the mandated requirements, the diploma shall be awarded by Krea University.

Programme Fee Structure and Timelines

The tuition fee for the programme is INR 3,50,000/- plus GST (Rupees Three Lakhs and Fifty Thousand only). Details of the other fees and the payment schedule is as follows:

S.no	Fee Description	Amount in INR	Tentative timeline
1	Tuition Fee: 1st Instalment inclusive of Admission Acceptance Fee:		
	a. Admission Acceptance Fee	50,000	To be paid within 1 week of receiving the offer letter
	b. Balance First Instalment Fee	1,00,000	To be paid within 15 days of receiving the offer or programme start date as applicable
2	Tuition fee: 2nd installment	1,00,000	30 May 2022
3	Tuition fee: 3rd installment	1,00,000	30 August 2022

The fee mentioned above is inclusive of tuition fee, provision of course materials, Library, IT support, alumni association membership, course related software licensing cost etc.

Know More about Fees & Refund Policies>>

Loan Assistance

Krea University has collaborated with a few banks and financial institutions to enable participants to explore education loan options. It may be noted that Krea University will only facilitate access to education loans from these banks without any obligation on its part.

Know More about Loan Assistance>>

> The rapidly evolving world of finance seeks leaders who can lead the change. The DAFA program has been mindfully and strategically co-designed by two fine institutions to prepare young professionals into skilled talent, who can define and develop real life solutions for the finance of tomorrow, led by technology and quantitative analytics.

Ramkumar Ramamoorthy

Pro Vice-Chancellor,
Professional Learning - Krea University

About Krea University

Krea University is an effort to re-imagine education for the world of tomorrow, founded by a group of globally renowned academics, business leaders and institution builders with a vision for the 21st Century and beyond. Guided by our unique Interwoven Learning model, Krea aims to enable students to become agile, ethical and purposeful leaders while encouraging creativity, critical thinking, communication, contemplation, cross-disciplinary approaches, real-world implementation, and the ability to negotiate unanswered questions. Students at Krea are guided by some of the best academic minds drawn from leading universities around the world - a combination of path-breaking young scholars to highly experienced experts.

Krea university currently houses **two schools** and provides strategic oversight to **three research centers.**

Schools

IFMR Graduate School of Business offers PhD, MBA and customised Management Development Programmes.

The School of Interwoven Arts and Sciences currently offers 3-year B.A. (Honours) & B.Sc. (Honours) degrees, with an option to do an additional year i.e. fourth year of Advanced Studies.

Research Centres

LEAD is a non-profit research organisation conducting high quality scalable action research and outreach in development economics and finance. The programmes enabled by LEAD include- Initiative for What Works to Advance Women and Girls in the Economy (IWWAGE), Catalyst: Inclusive Cashless Payment Partnership, and Evidence for Policy Design (EPoD) India.

Centre for Digital Financial Inclusion (CDFI) is a leading social enterprise developing and supporting digital innovations for social impact.

The **Abdul Latif Jameel Poverty Action Lab (J-PAL)** is a global research center working to reduce poverty by ensuring that policy is informed by scientific evidence. J-PAL South Asia leads J-PAL's work in the South Asia region with partnerships in Bangladesh, India, Nepal, Pakistan, and Sri Lanka.

IFMR Graduate School of Business (IFMR GSB)

IFMR GSB, Krea University provides a vibrant intellectual foundation of theory, knowledge, skills and perspectives to its students. Enriched by the unique 'Interwoven Learning' approach of Krea University, IFMR GSB focuses on endowing students with critical, abstractive, analytical, quantitative, integrative and ethical thinking.

IFMR GSB is recognised as a Scientific and Industrial Research Organisation (SIRO) by the Department of Scientific and Industrial Research, Ministry of Science and Technology, Government of India.

» **Over 5 decades of experience in Finance education**

» **Delivered over 50,000 hours of executive programmes to more than 20,000 executives**

» **Illustrious set of alumni in top positions across organisations in different domains, all over the world**

» **Recognised as Asia's 1st Finance training and research institution**

D'Amore-McKim School of Business at Northeastern University

Founded in 1922, D'Amore-McKim offers a unique model of business education that purposely blends innovative classroom learning with real-world business application, driven by its rich portfolio of cooperative education opportunities. At the undergraduate level, both the BS in Business Administration and the BS in International Business programs offer students the opportunity to develop into impactful business leaders. Graduate students can choose from several different full- and part-time MBA and MS programs, as well as numerous certificate programs, with various modalities that enable motivated professionals to accelerate their business success. D'Amore-McKim is accredited by AACSB International.

» Accredited by AACSB International

» Ranked #4 in best online finance MBA programs in the USA (US News and World Report)

» Ranked #8 in US-ranked online MBA programs (Financial Times)

» Among Top 50 research universities in the USA

Be part of a global talent pool

Take the next steps in your professional journey today!

www.krea.edu.in/dafa

Campus: 5655, Central Expressway, Sri City, Andhra Pradesh
City Office: No. 196, TTK Road, Parthasarathy Gardens, Chennai, Tamil Nadu
E-Mail : dafa.info@krea.edu.in

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