

BIA

BOSTON
INSTITUTE OF
ANALYTICS[®]

GLOBAL LEADER IN PROFESSIONAL TRAINING PROGRAMS

DUAL CERTIFICATE PROGRAM IN

**CLOUD COMPUTING &
DEVOPS**



**#1 INTERNATIONAL
TRAINING INSTITUTE**

RANKED BY BUSINESS WORLD, BRITISH COLUMBIA TIMES,
BUSINESS STANDARD, AVALON GLOBAL RESEARCH, IFC
AND SEVERAL RECOGNIZED FORUMS.

www.bostoninstituteofanalytics.org





BOSTON
INSTITUTE OF
ANALYTICS



Boston Institute of Analytics - Empowering Minds, Transforming Futures.

As the world's top ranked advanced training institute, Boston Institute of Analytics imparts training to students and working professionals via classroom training conducted by industry experts. With training campuses across US, UK, Europe and Asia, BIA® has training programs across the globe with a mission to bring quality education in emerging fields. BIA® courses are designed to train students and professionals on industry's most widely sought after skills, and make them job ready in today's rapidly evolving world.

Boston Institute of Analytics stands as the pinnacle of global excellence in education, boasting three distinguished schools that cater to the diverse and evolving demands of the professional landscape.

The **BIA® School of Technology & AI** offers a spectrum of courses ranging from Data Science to Cyber Security, ensuring students are equipped with cutting-edge skills in the rapidly advancing field of technology. The **BIA® School of Management** provides comprehensive courses in disciplines such as Investment Banking, Financial Analytics, and Business Management, shaping future leaders with a strategic and forward-thinking mindset. For those aspiring to enter the creative industries, the **BIA® School of Animation & Design** offers courses in Animation, Gaming, Fashion Analytics, VFX, and more, fostering innovation and artistic expression. **BIA® School of Media and Communications** has range of in-demand courses spanning across journalism, advertising, english communications and public speaking to equip students to thrive in today's ever-evolving media and communications landscape. **BIA® School of Scholars** has an array of engaging courses tailored for young minds in the K-12 age group, covering a spectrum from abacus, animation, AI, robotics to foreign languages, preparing the young minds for the hyper competitive world of tomorrow.

BIA's influence extends across the globe with a network of 85+ campuses, creating a truly international learning environment. At the heart of its success is the commitment to delivering training by industry experts, ensuring that students receive real-world insights and practical knowledge. BIA's immersive classroom interactive format enhances the learning experience, allowing students to engage actively with the material and collaborate with peers. As the global leader in these specialized courses, BIA® continues to shape the future of professionals, empowering them to thrive in their chosen fields.

BIA® has been consistently ranked number one international training institute by Business World, British Columbia Times, Business Standard, Avalon Global Research, IFC and Several Recognized Forums. Boston Institute of Analytics classroom training programs have been recognized as industry's best training programs by global accredited organizations and top multi-national corporates.



BIA

BOSTON
INSTITUTE OF
ANALYTICS[®]

Global Leader in Professional Training Programs

7+

COUNTRIES

105+

CAMPUSES

350+

GLOBAL CORPORATE
PARTNERS

50,000+

BIA[®] TRAINED STUDENTS

15+ Million

TRAINING HOURS COMPLETED

7,000+

INDUSTRY TRAINERS

Top Enrolled BIA® Courses

BIA BOSTON INSTITUTE OF ANALYTICS

BECOME A
BIA® CERTIFIED
DATA SCIENTIST
IN 4 MONTHS

1500+
Admissions
Every Month

DATA SCIENCE & ARTIFICIAL INTELLIGENCE

BIA BOSTON INSTITUTE OF ANALYTICS

BECOME A
BIA® CERTIFIED
**CYBER SECURITY &
ETHICAL HACKING**
PROFESSIONAL

1300+
Admissions
Every Month

CYBER SECURITY & ETHICAL HACKING

BIA BOSTON INSTITUTE OF ANALYTICS

GET DUAL CERTIFICATION IN
**CLOUD COMPUTING
AND DEVOPS**

1100+
Admissions
Every Month

CLOUD COMPUTING & DEVOPS

BIA BOSTON INSTITUTE OF ANALYTICS

DUAL CERTIFICATE PROGRAM IN
**BUSINESS
MANAGEMENT
& ANALYTICS**

1200+
Admissions
Every Month

BUSINESS MANAGEMENT & ANALYTICS

And Many More...

BIA

BOSTON[®]
INSTITUTE OF
ANALYTICS

Key Highlights



INDUSTRY APPROVED CURRICULUM

Courses designed and developed by top industry professionals.



LEARN FROM SCRATCH, OR NOT!

Depending on your current expertise level, choose Core or Advanced module.



HANDS-ON TRAINING

You cannot master a language without speaking it.



100% PLACEMENT ASSISTANCE

Access to jobs and internships from partner companies, resume building, interview prep and soft skills training.



BECOME INDUSTRY READY

Work on real industry case studies.



UNIFIED LEARNING

Explore the benefits of both classroom & online learning.



LEARN FROM EXPERIENCED INDUSTRY PROFESSIONALS

Professionals know what to prepare you for.



BIA[®] Alumni Working With Top Global Companies

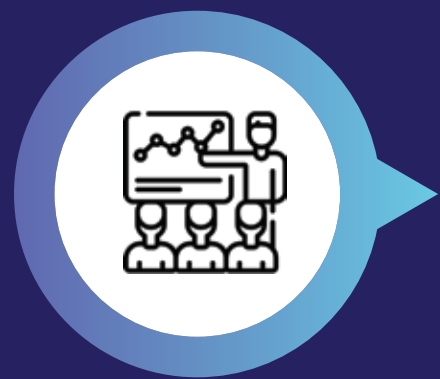
				
				
				
				
				
				
				

And Many More...

Learning Path



LEARN THROUGH CASE STUDIES



UNDERGO HANDS-ON TRAINING



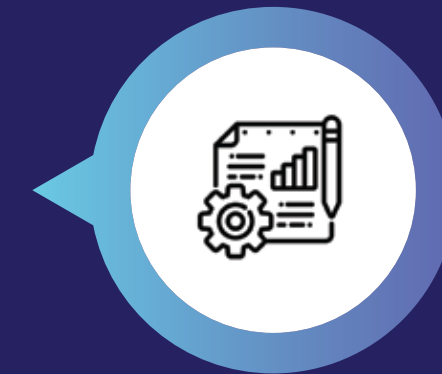
PERFORM ASSIGNMENTS



CAPSTONE PROJECT



INTERVIEW PREP AND
SOFT SKILLS TRAINING



IN-CLASS ASSESSMENT AND
FEEDBACK ON ASSIGNMENTS

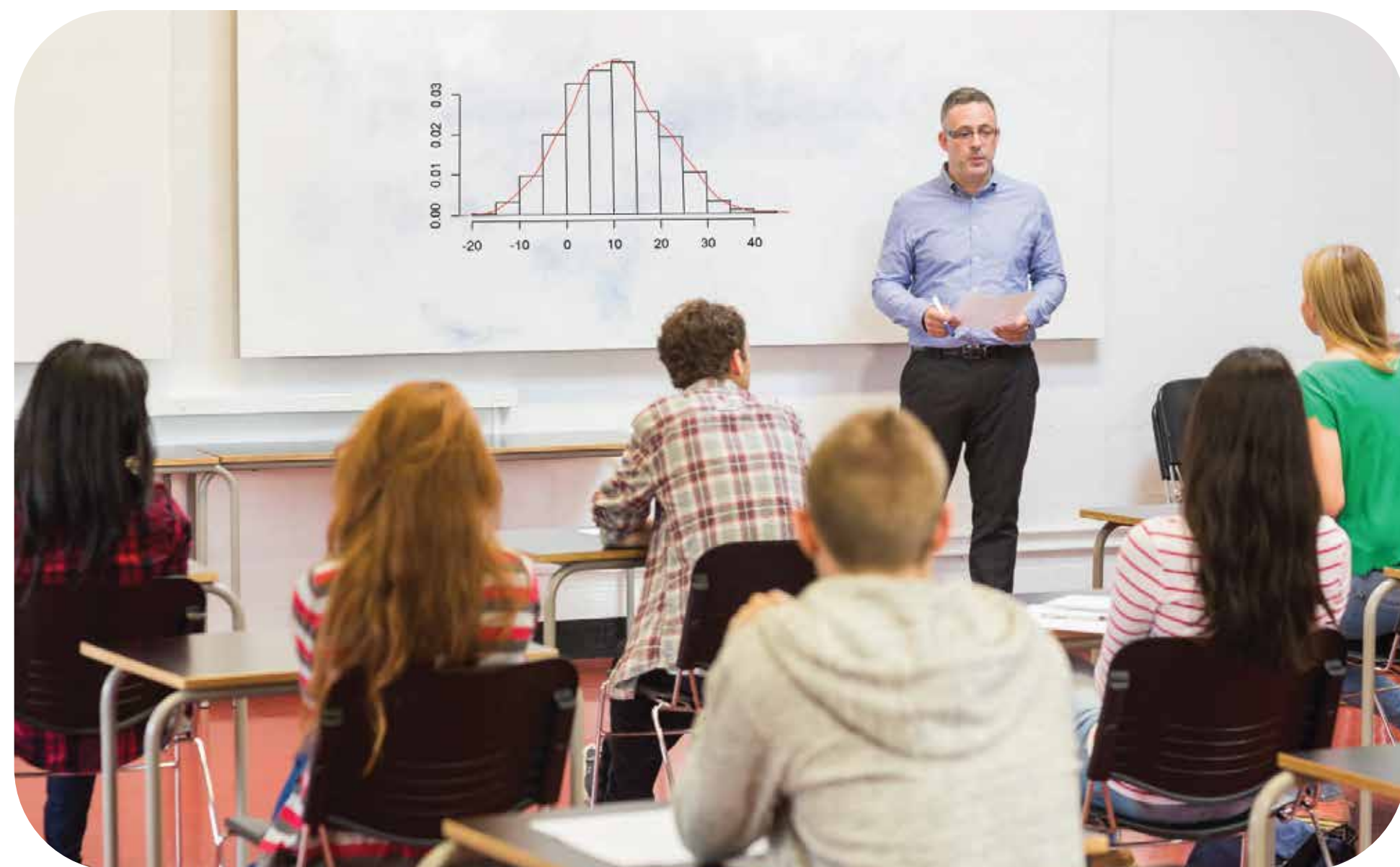


PLACEMENT ASSISTANCE



LIFETIME CAREER SUPPORT

Mode of Learning



CLASSROOM



ONLINE

BIA[®] has a **CLASSROOM + ONLINE** training pattern where students have the flexibility to attend the sessions IN CLASSROOM as well as ONLINE. BIA[®] Trainers conduct the training sessions live from BIA[®] Classrooms. All BIA[®] sessions are live streamed for students from that batch, thus enabling students to attend the same sessions ONLINE and interact with the Trainer as well as other students.

Skill-Sets Covered



**AMAZON WEB SERVICES
(AWS) COMPETENCE**



**MICROSOFT AZURE
COMPETENCE**



DEVOPS PRACTICES



**INFRASTRUCTURE
AS CODE (IAC)**



**SECURITY AND
GOVERNANCE**



**MONITORING AND
OPTIMIZATION**

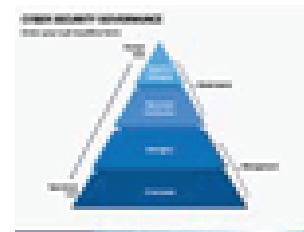
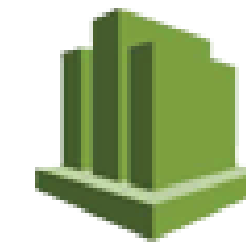
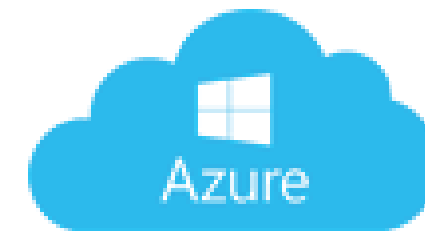


**CONTENT DELIVERY AND
LOAD BALANCING**



**TROUBLESHOOTING AND
PROBLEM SOLVING**

Tools & Technologies

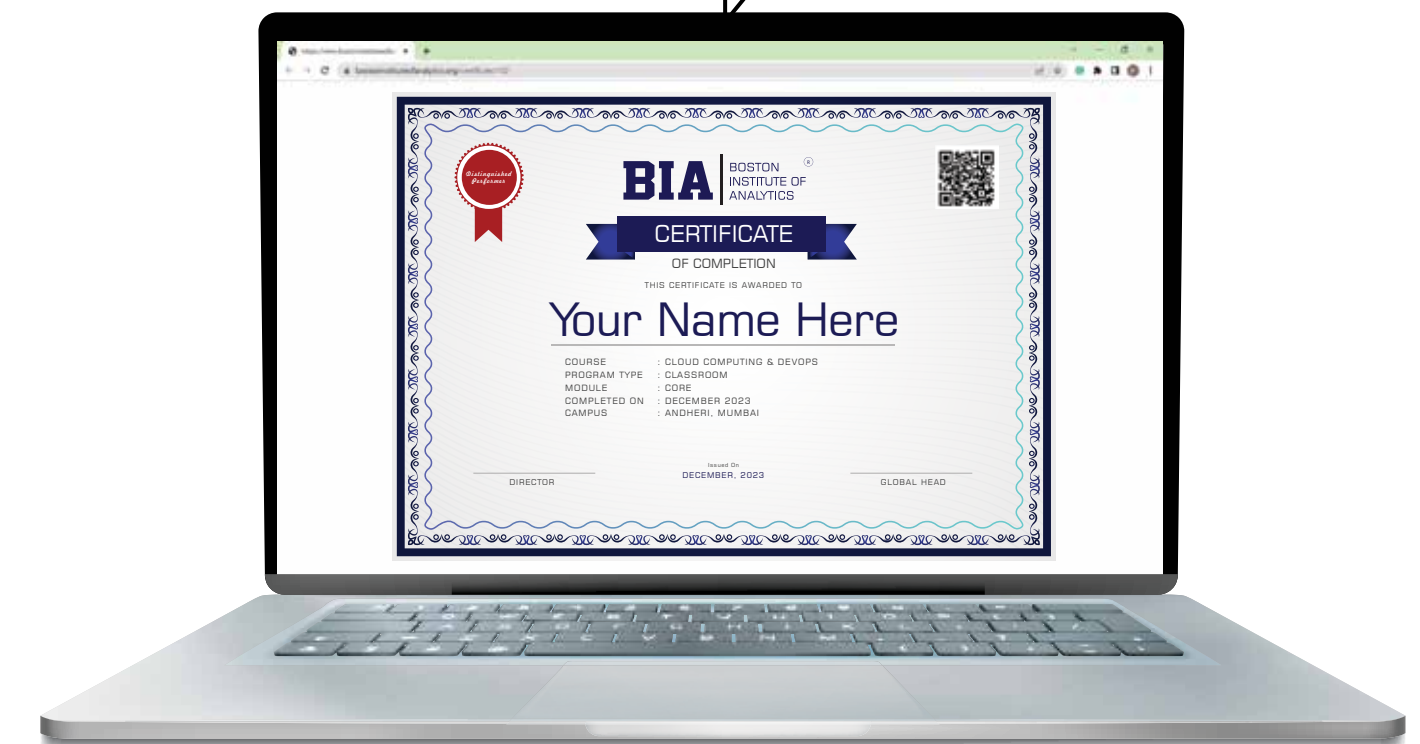




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a unique authorization QR code.



Know Your Future As Cloud Computing & DevOps Professional

Job Roles You Can Apply For

CLOUD ARCHITECT

DEVOPS ENGINEER

CLOUD SOLUTIONS
ARCHITECT

SITE RELIABILITY
ENGINEER (SRE)

CLOUD SECURITY
ENGINEER

CLOUD CONSULTANT

DEVOPS CONSULTANT

CLOUD ADMINISTRATOR

DEVOPS MANAGER

CLOUD ENGINEER

CLOUD SYSTEMS
ADMINISTRATOR

DEVOPS ANALYST

CLOUD OPERATIONS
ENGINEER

CLOUD INTEGRATION
SPECIALIST

CLOUD AUTOMATION
ENGINEER

DEVOPS SPECIALIST

CLOUD INFRASTRUCTURE
ENGINEER

CLOUD PLATFORM
ENGINEER

CI/CD ENGINEER

CLOUD SUPPORT
ENGINEER

And Many More...

DUAL CERTIFICATION

IN TWO MOST IN-DEMAND AND HIGHLY PAID SKILLS

CLOUD COMPUTING

+

DEVEOPS



CLOUD COMPUTING & DEVOPS

CORE MODULE

Embark on a transformative journey with our Cloud Computing & DevOps course. Master the art of scalable, efficient IT infrastructure through cloud services and collaborative development operations. Drive innovation in the digital era.



CERTIFICATION

4 Months

(100 HOURS WEEKEND COURSE)

DIPLOMA

6 Months

(100 HOURS WEEKEND COURSE) +
(2 MONTHS PROJECT INTERNSHIP)

MASTER DIPLOMA

10 Months

(100 HOURS WEEKEND COURSE) + (6 MONTHS ON-JOB TRAINING AS CLOUD ARCHITECT)

COURSE EXPECTATIONS AND STRUCTURE

- Overview of the Course Modules
- Brief on Assignments and Assessments

INTRODUCTION TO LEARNING ENVIRONMENT

- Digital Platforms and Resources
- Communication Channels

INTRODUCTION TO CLOUD COMPUTING CONCEPTS

- Definition and Principles of Cloud Computing
- Advantages and Disadvantages
- Cloud Deployment Models: Public, Private, Hybrid
- Practical Exercise: Sign up for AWS and Azure Accounts and Explore the Cloud Dashboards

CLOUD SERVICE MODELS: IAAS, PAAS, SAAS

- Explanation of Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS)
- Use Cases for each Service Model
- Practical Exercise: Analyze Common SaaS Applications and Identify their Service Models

INTRODUCTION TO AWS

- Overview of Amazon Web Services
- AWS Global Infrastructure and Availability Zones
- AWS Free Tier
- Practical Exercise: Set-up an AWS Free Tier Account

AWS SERVICES OVERVIEW

- Overview of Core AWS Services: EC2, S3, RDS, Lambda, and More
- Use Cases and Scenarios for AWS Services
- Practical Exercise: Explore AWS Services Dashboard and Identify their Use Cases

CLOUD COMPUTING & DEVOPS

AWS FREE TIER & PRICING

- Understanding AWS Pricing Models
- Managing Costs with the AWS Free Tier
- Cost Estimation Tools
- Practical Exercise: Estimate Costs for a Simple Cloud Setup using AWS Pricing Calculator

AWS IDENTITY & ACCESS MANAGEMENT (IAM)

- IAM Concepts: Users, Groups, Roles, and Policies
- Best Practices for IAM Security
- Practical Exercise: Create IAM Users and Apply Security Policies

AWS CLI & SDKS

- Installing and Configuring AWS CLI
- Overview of AWS SDKs for Programming
- Practical Exercise: Install and Configure AWS CLI and Perform Basic AWS Operations

CREATING & MANAGING AWS EC2 INSTANCES

- Launching and Configuring EC2 Instances
- Security Groups, Key Pairs, and Instance Types
- Practical Exercise: Launch an EC2 Instance and Configure it for a Specific Use Case

NETWORKING IN AWS: VPC, SUBNETS, SECURITY GROUPS

- Creating and Configuring Virtual Private Cloud (VPC)
- Subnetting and Network Security with Security Groups
- Practical Exercise: Design a VPC and Set-up Security Groups for a Multi-Tier Application

AWS STORAGE SERVICES: S3, EBS, EFS

- Overview of AWS Storage Services
- Use Cases for Amazon S3, EBS, and EFS
- Practical Exercise: Create an S3 Bucket, Attach an EBS Volume, and Set-up an EFS File System

AWS DATABASE SERVICES: RDS, DYNAMODB

- Introduction to Managed Database Services
- Use Cases for Amazon RDS and DynamoDB
- Practical Exercise: Set-up an RDS Database and Create Tables in DynamoDB

AWS LAMBDA & SERVERLESS COMPUTING

- Understanding Serverless Computing
- Creating and Deploying AWS Lambda Functions
- Practical Exercise: Develop and Deploy a Simple AWS Lambda Function

AZURE NETWORKING: VIRTUAL NETWORKS, SUBNETS, NSG

- Configuring Virtual Networks in Azure
- Subnetting and Network Security Groups (NSG)
- Practical Exercise: Design and Configure a Virtual Network with Subnets and NSG

CLOUD COMPUTING & DEVOPS

AZURE ACTIVE DIRECTORY (AAD)

- Overview of Azure Active Directory (AAD)
- User Management, Groups, and Role-Based Access Control
- Practical Exercise: Create Azure AD Users, Groups, and Apply Role-Based Access Control

AZURE STORAGE SERVICES: BLOB, FILE, TABLE, QUEUE

- Introduction to Azure Storage Services
- Use Cases for Azure Blob Storage, File Storage, Table Storage, and Queue Storage
- Practical Exercise: Work with Azure Blob Storage and Create a File Share using Azure File Storage

AWS DATABASES: AZURE SQL DATABASE, COSMOS DB

- Overview of Azure Database Services
- Configuration and Management of Azure SQL Database and Cosmos DB
- Practical Exercise: Set-up an Azure SQL Database and a Cosmos DB Instance

CONTENT DELIVERY NETWORKS (CDN)

- Implementing a Content Delivery Network (CDN) for Performance Optimization
- CDN Configurations and Use Cases
- Practical Exercise: Configure a CDN for Content Delivery

MONITORING & LOGGING IN AWS & AZURE

- Setting-up Monitoring and Logging Tools in both AWS and Azure
- Monitoring Best Practices
- Practical Exercise: Set-up Monitoring and Create Custom Alerts in both AWS and Azure

SECURITY BEST PRACTICES IN AWS & AZURE

- Implementing Security Best Practices in AWS and Azure
- Identity and Access Management (IAM) Roles and Security Groups
- Practical Exercise: Implement Security Policies and Apply IAM Roles and Security Groups

LOAD BALANCERS AND AUTO SCALING

- Configuring Load Balancers for High Availability
- Auto Scaling and Dynamic Resource Provisioning
- Practical Exercise: Configure Load Balancers and Set-up Auto Scaling for Web Applications

COST OPTIMIZATION STRATEGIES

- Strategies for Optimizing Cloud Costs
- Cost Allocation and Budgeting
- Practical Exercise: Implement Cost Optimization Strategies for Cloud Resources

TAGGING AND RESOURCE GROUP MANAGEMENT

- Organizing and Managing Resources using Tags
- Resource Groups in AWS and Azure
- Practical Exercise: Manage Resources using Tags and Resource Groups

CLOUD COMPUTING & DEVOPS

DEVOPS PRACTICES IN THE CLOUD

- Implementing Continuous Integration and Continuous Deployment (CI/CD) Pipelines in the Cloud
- Practical Exercise: Set-up CI/CD Pipelines for Deploying Applications

INFRASTRUCTURE AS CODE (IAC) WITH AWS CLOUDFORMATION & AZURE RESOURCE MANAGER

- Overview of Infrastructure as Code (IAC) Concepts
- Using AWS Cloud Formation and Azure Resource Manager to Deploy Infrastructure
- Practical Exercise: Deploy Infrastructure using IAC Templates in both AWS and Azure

CAPSTONE PROJECT ALLOCATION, MENTORSHIP & PRESENTATION

- Project and Dataset Assignment by Capstone Mentor
- Orientation Session by Capstone Mentor – Project Expectations
- Mentorship Session by Capstone Mentor – Doubt Resolutions
- Project Presentation

SOFT SKILLS TRAINING

- Presentation Skills
- Email Etiquettes
- LinkedIn Profile Building
- Personality Development and Grooming

INTERVIEW PREPARATION

- Interview Do's and Don'ts
- Mock Interviews
- HR and Technical Interview Prep
- One-on-One Feedback

Access to Global Network of BIA® Advisory Council



**ASHWIN MALIK
MESHRAM**

Managing Director of a US-based machine learning company, specializing in algorithm development for financial services. IIT Bombay alumnus.

Specialities:

Predictive Analytics, Machine Learning,
Artificial Intelligence

Domain Expertise:

Insurance, Retail, E-commerce, Banking,
Asset Management



XI ZHAO

Co-leading the Financial Literacy Initiative at Boston Private Industry Council, Member of 'President's Council' at Boston Children's Museum, Teaches Investment course at Clark University, CFA® Charter Holder, Boston University alumnus.

Specialities:

Econometrics, Risk Modelling,
Marketing Analytics

Domain Expertise:

Automobile, Banking, Insurance,
Asset Management



PETER VIOLA

VP of Product and Implementation at a US-based machine learning and artificial intelligence company; Majored in Physics from Tufts University.

Specialities:

Scenario Planning Algorithms, M &
A Analytics, Operational Efficiency

Domain Expertise:

Insurance, Asset Management,
E-commerce



MICHAEL AGHA

Advisor at SPARK research program at Stanford University, Ex- Global Brand Strategy at Intel, Ex-Oliver Wyman, Wharton alumnus.

Specialities:

Corporate Strategies, Marketing Analytics,
Business Transformation

Domain Expertise:

Health Care & Life Sciences, Pharmaceutical,
Hard Tech



JAMES KERLEY

Managing partner at US based business transformation company, Ex-CMO at LIMRA LOMA.

Specialities:

Sales Analytics, Marketing, Strategy

Domain Expertise:

Insurance, Finance, Wealth Management



TONY BORDON

Managing Director of a global company specializing in analytics and insurance-based software; Board member of The Boston Children's Museum and BUILD.ORG. Ex-president of Institutional Initiatives with The Princeton Review. Ex-COO of Riverdeep Inc.

Specialities:

Marketing Analytics,
Sales Strategies

Domain Expertise:

Digital Media, Education,
Entertainment Publishing



NIRAV DAGLI

CEO of a predictive analytics and artificial intelligence company based out of Boston. Ex-Partner at Oliver Wyman.

Specialities:

Financial Modelling, Algorithm Development,
Predictive Analytics

Domain Expertise:

Banking, Insurance, Asset Management,
Consumer Goods



**RISHIKESH
DESHPANDE**

CEO of a marketing and research analytics firm. Consultant to Fortune 1000 companies.

Specialities:

Marketing Analytics, Financial Modelling,
Predictive Analytics

Domain Expertise:

Retail, FMCG, Consumer Goods, Media,
Manufacturing, Telecom

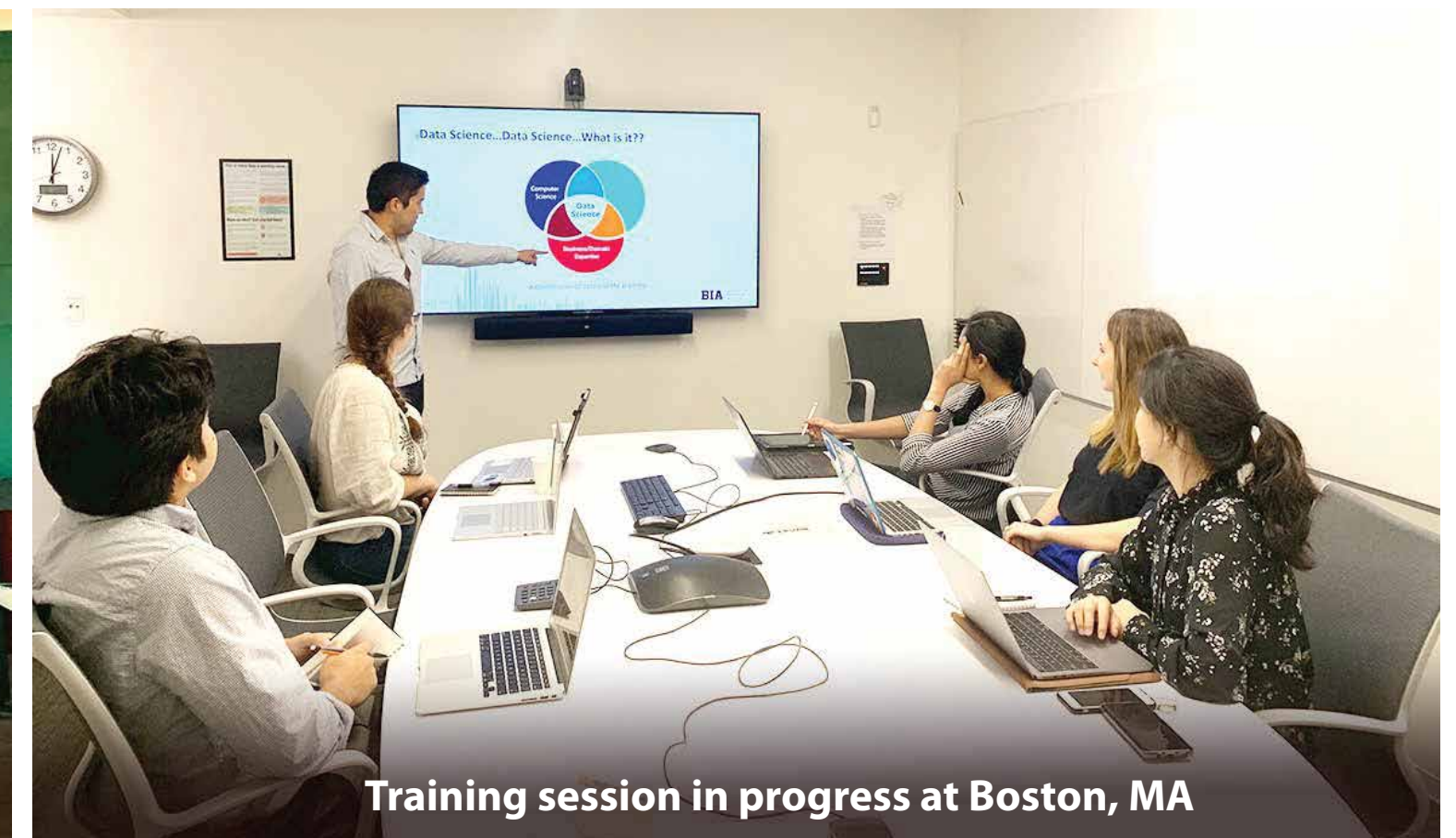
BIA[®] In Action



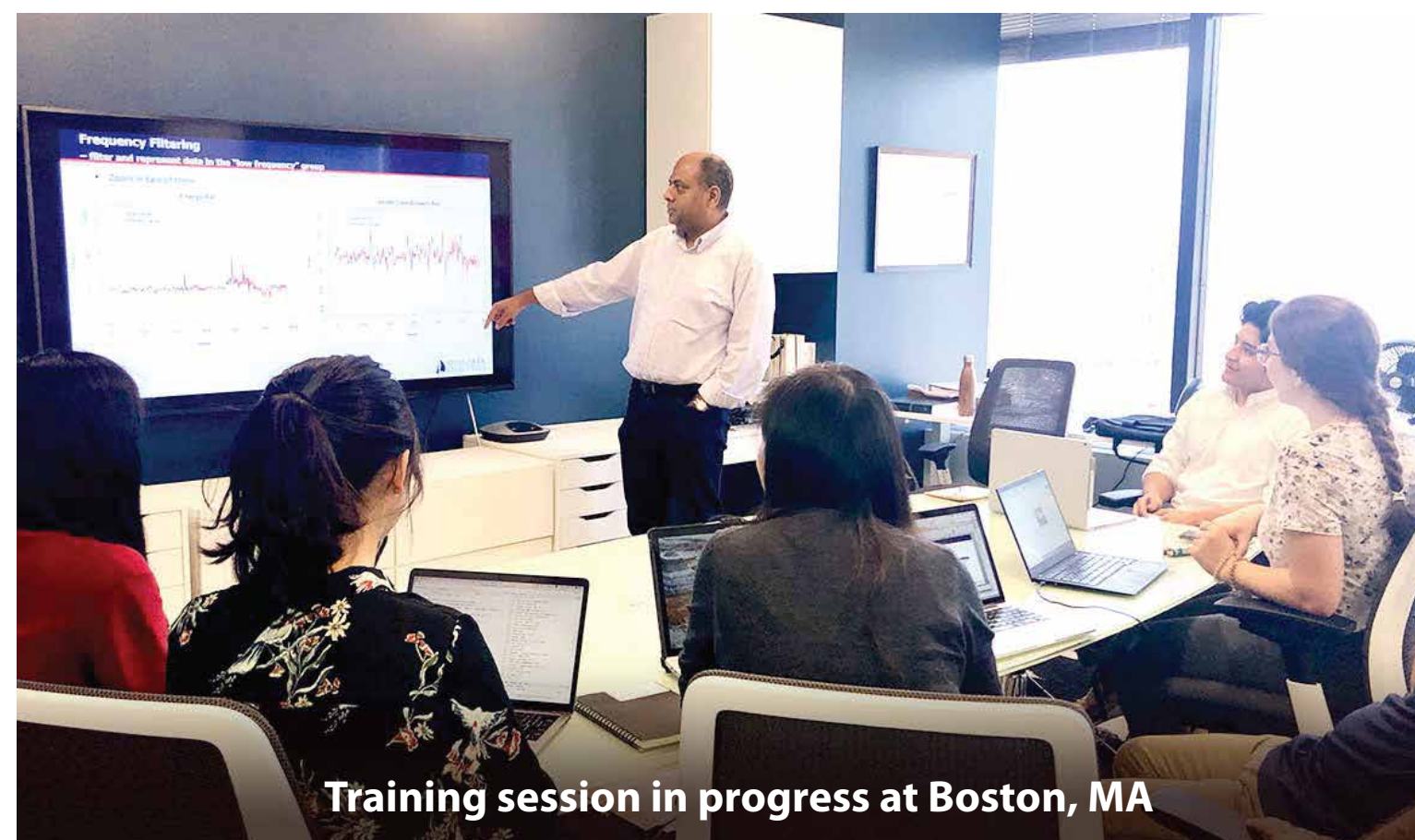
Case Study session at Boston University Questrom School of Business



Case Study session at Boston University



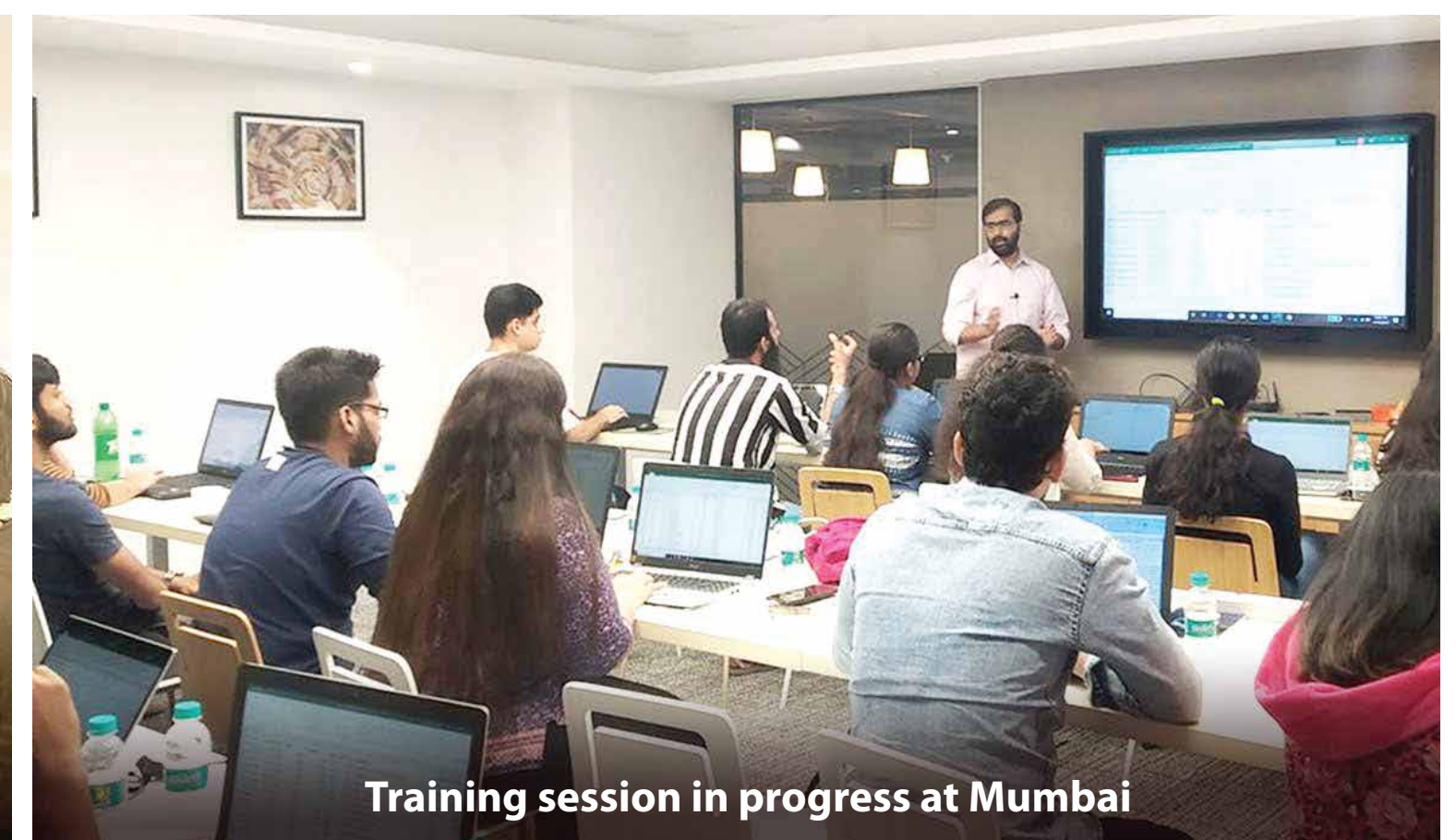
Training session in progress at Boston, MA



Training session in progress at Boston, MA

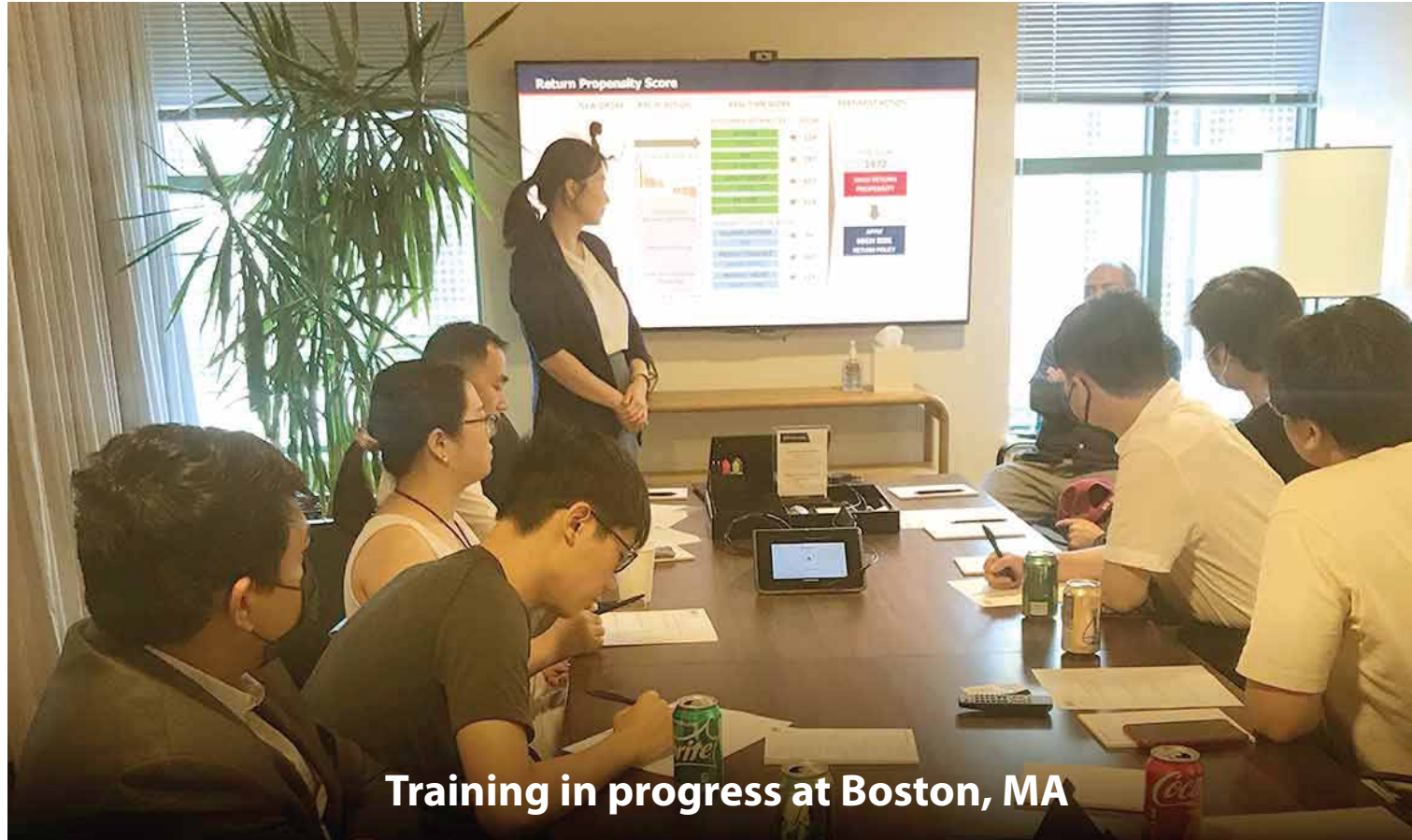


Industry case study presentation at Boston, MA



Training session in progress at Mumbai

BIA[®] In Action



Training in progress at Boston, MA



Industry case study presentation in progress



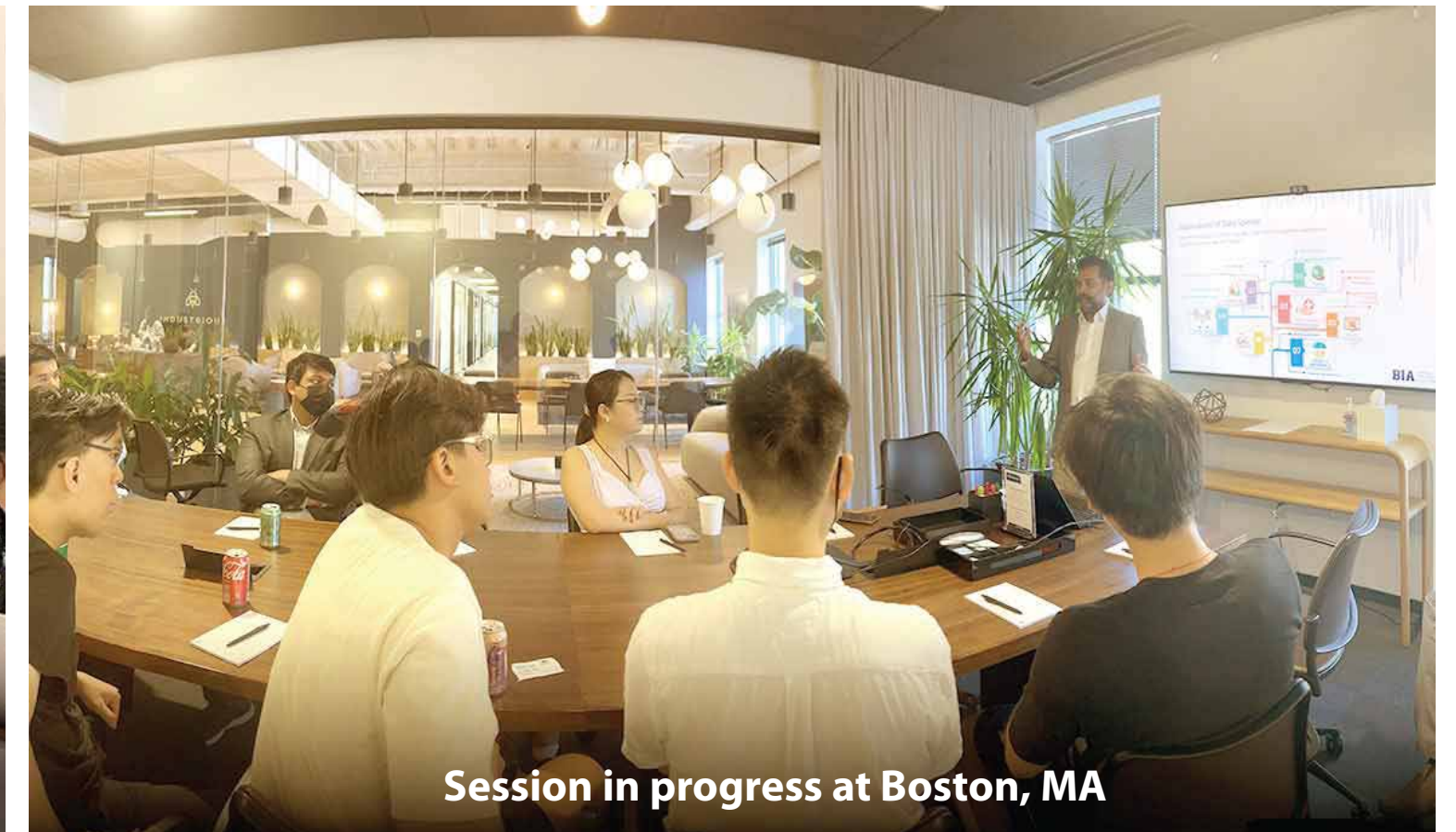
Case Study session at Boston University



Case Study session at Boston University Questrom School of Business



Training session in progress at Boston, MA



Session in progress at Boston, MA

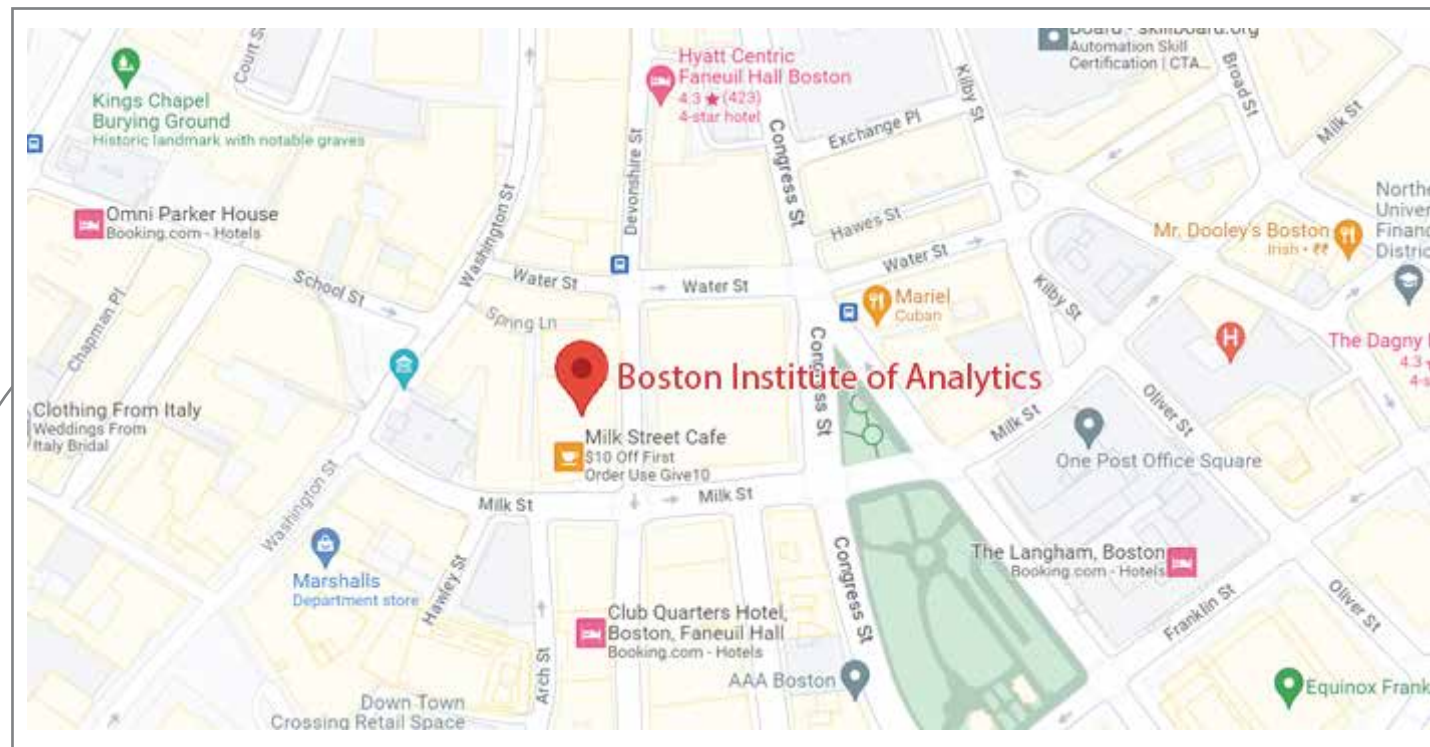
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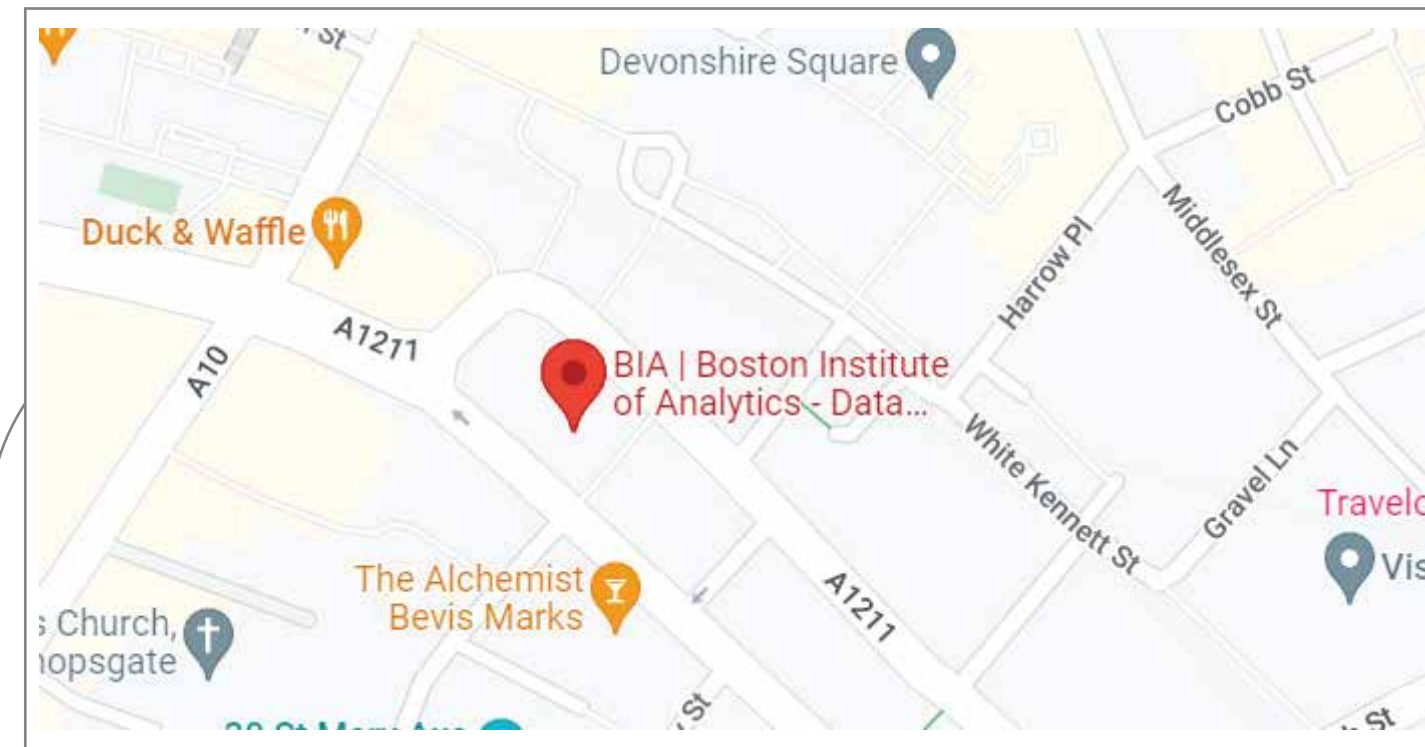
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For any queries, please contact



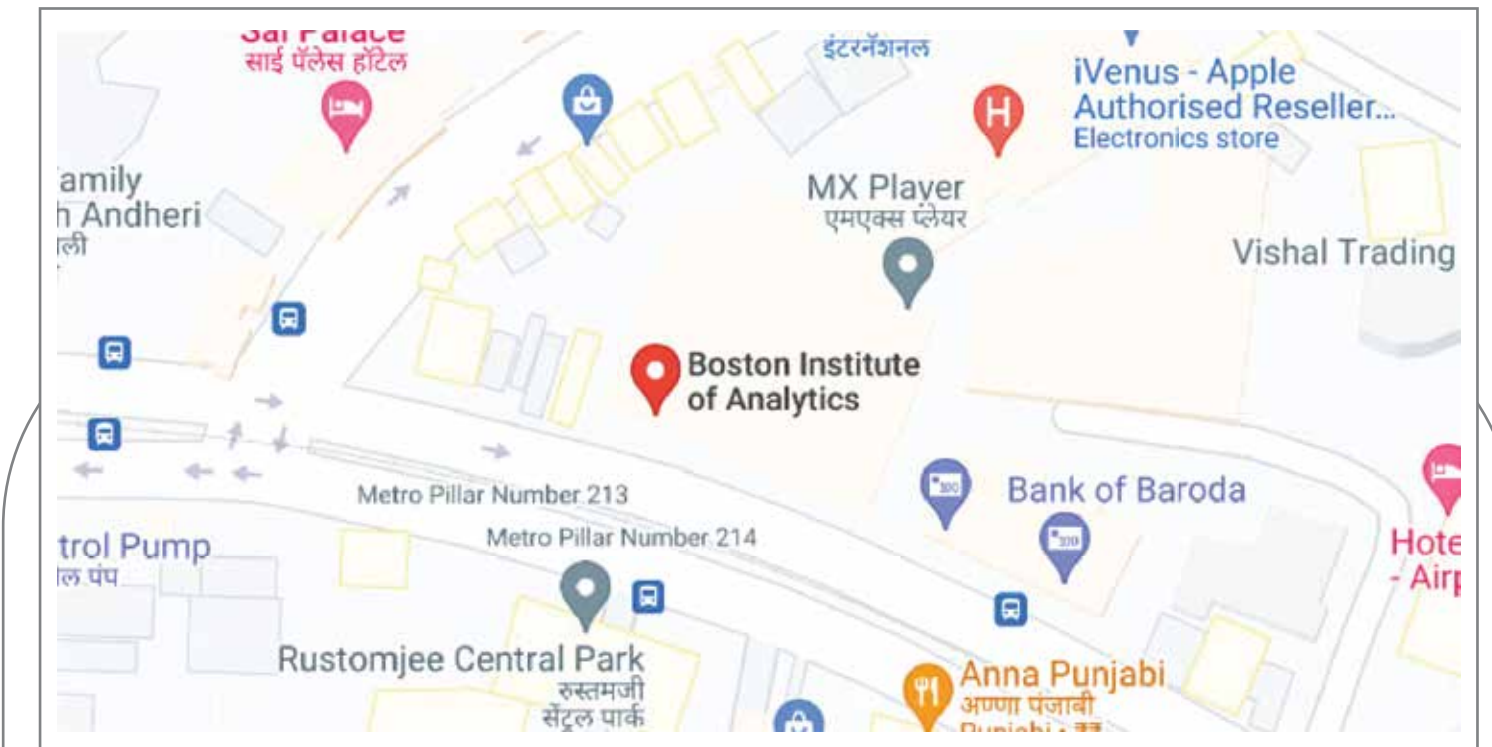
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