Welcome!

We will start promptly at 2pm EST
Please add your questions to the chat box
    - we will address these during the Q&A
If you are unable to hear the speakers just let us know in the chat box

Following the webinar you will receive:
- A copy of the slide deck
- The recording of the webinar
- An overview of the questions with corresponding answers
Introducing the Financial Data Professional credential from CAIA.

Financial Data Professional Institute

Bill Kelly, CEO, CAIA Association
Mehrzad Mahdavi, Executive Director, FDP Institute
Hossein Kazemi, Senior Advisor, CAIA Association
Mirjam Dekker, Project Manager, FDP Institute

www.fdpinstitute.org

December 19, 2019
Agenda

• Welcome
• Quick Logistics
• Introductions – todays presenters

Bill Kelly
CEO
CAIA

Dr. Mehrzad Mahdavi
Executive Director
FDPI

Dr. Hossein Kazemi
Sr. Advisor FDPI
Sr. Advisor CAIA

Mirjam Dekker
Project Manager
FDPI
Agenda & Today's Objectives

• Welcome
• Quick Logistics
• Introductions – today's presenters
• Objectives for today's webinar
  • Why the program was created
    • Why CAIA initiated the FDP Institute
    • Investment Professionals Trends
    • Supply & Demand of skilled finance professionals
  • What is the FDP Institute
    • About FDP
  • Who the Program is intended for
  • How you can obtain your FDP credential
    • Details about the prerequisite classes and the exam
  • When can you start?
    ➢ Questions
    ➢ Closing
Why CAIA initiated the FDP Institute

Disrupt Yourself, Before Somebody Else Does it For You

The FDP Charter is designed to elevate the skill set of professionals who work in the Financial Sector
Industry Trends

• Companies pursue cutting-edge tools and technologies
  • Financial firms are racing to incorporate digital technology in every aspect of their operations.

• Companies setup multidisciplinary data science teams
  • Data science or analytical teams consist of members specializing in various tasks – from defining problems and objectives, to collecting and organizing data, to applying algorithms and tools to data, to implementing the results.

• Financial firms employ machine learning and data analytics to
  • Identify investment opportunities (investment alpha),
  • Improve operational efficiency (operational alpha)
  • Service clients
  • Improve compliance.

Source: 2019 Predictions for Data Science & Analytics in Financial Services – Burtchworks
Implications

• Re-skilling of quantitative professionals in all aspects of finance is rapidly growing

• Companies are looking for finance professionals who have the skill and knowledge to work with data scientists

• Professionals who can identify the problems that are most likely to benefit from applications of big data and machine learning will be in a unique position to drive the digital revolution that will be shaping the financial industry of future

Source: 2019 Predictions for Data Science & Analytics in Financial Services – Burtchworks
How can the FDP Program Prepare You?

• FDP curriculum helps you upgrade your skills in the emerging area of financial data analytics. Learn about the benefits and limitations of various machine learning algorithms, their applications in different segments of the financial industry, and acquire the skills to lead a team of data scientists.

• The FDP program is especially designed for finance professionals who want to acquire the skills and knowledge that will enable them to design and develop data analytics projects that offer the highest ROI for the organization.

• A special emphasis is placed on practical skills so that FDP Charterholders can undertake and meaningfully contribute to data-intensive functions present in a financial institution.
Who is a Typical FDP Charterholder?

• A subject matter expert in the financial industry
  • Asset management, banking, insurance, treasury, accounting ....

• Has the skills and the knowledge to identify:
  • Problems that digital technology could offer optimal solutions for
  • Alternative data sources that will offer insights into potential solutions to these problems
  • The limitations and promises of machine learning algorithms that can be used to create these solutions
  • The best way to communicate the results to stakeholders
  • The most effective method to implement the results

• In short: A typical FDP Charterholder will help an organization earn the highest ROI on its investments in data analytics
Steps of the Analytics Initiatives

1. Identify & prioritize business use cases
2. Collect & prepare data
3. Build the analytics engine
4. Validate & derive business outcome
5. Implement the solution and execute on insights

Source: You Don’t Have to Be a Data Scientist to Fill This Must-Have Analytics Role by Nicolaus Henke, Jordan Levine and Paul McInerrney (McKinsey)
Designed by Financial Professionals for Financial Professionals

Curriculum developed by a combination of academia and industry practitioners
The FDP Designation *complements* Existing Designations

- **Future Proof** your career in the fast-growth area of data-driven investing
- **Skill-up** in quantitative products, big data and machine learning
- **Champion** in bridging the gap between finance and data science
- **Earn** the only global designation for financial professionals in AI and data science
- **Participate** in the hottest job market in financial sector
Meet the 1st Group of FDP Charterholders
Your Go-To-Resources

Free to everyone

FDP HANDBOOK

FDP Institute Handbook
March/April 2020

FDP STUDY GUIDE

FDP Institute Study Guide
March 16 – April 4, 2020
The Study guide provides learning guidelines for each of the 8 topics..

**TOPIC 1**
Introduction to Data Science & Big Data

**READING 1**

**LEARNING OBJECTIVE 1**

**KEYWORDS**
- Data mining (p. 2)
- Churn (p. 4)
- Data engineering (p. 5, 7)
- Target (p. 24)
- Unsupervised data mining (p. 24)

**LEARNING OBJECTIVE 2**

**Reading 2**

**Reading 3**

**Reading 4**

**Learning Objectives**

Demonstrate proficiency in the following areas:

1) Data analytic thinking (Ch. 1)
   For example:
   - Discuss the ubiquity of data opportunities.
   - Define data science, engineering, and data-driven decision making.
   - Explain data and data science capability as a strategic asset.
   - Describe data-analytic thinking.
   - Compare data science and the work of the data scientist.

2) Business problems and data science solutions (Ch. 2)
   For example:
   - Describe how one transitions from business problems to data mining tasks.
   - Compare supervised methods to unsupervised methods.
   - Describe the difference between data mining and using the results of data mining.
   - Describe key aspects of the data mining process, including business understanding, data understanding, data preparation, modeling, and evaluation.
## The FDPI Program & FDP Curriculum

### March/April 2020 Exam

- **FDP Exam:**

<table>
<thead>
<tr>
<th>Topic</th>
<th>Approximate Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Introduction to Data Science &amp; Big Data</td>
<td>5-10</td>
</tr>
<tr>
<td>2. Data Mining &amp; Machine Learning: Introduction</td>
<td>5-10</td>
</tr>
<tr>
<td>4. Data Mining &amp; Machine Learning: Classification &amp; Clustering</td>
<td>5-15</td>
</tr>
<tr>
<td>5. Data Mining &amp; Machine Learning: Performance Evaluation, Back testing &amp; False Discoveries</td>
<td>5-10</td>
</tr>
<tr>
<td>6. Data Mining &amp; Machine Learning: Representing &amp; Mining Text</td>
<td>5-10</td>
</tr>
<tr>
<td>7. Big Data, Data Mining &amp; Machine Learning: Ethical &amp; Privacy Issues</td>
<td>5-10</td>
</tr>
<tr>
<td>8. Big Data and Machine Learning in the Financial Industry</td>
<td>30-50</td>
</tr>
</tbody>
</table>

- **On-line classes:**
  - Choose between two (2) Python or two (2) R programming classes (4-6 hours each).
  - The online classes can be completed before or after FDP exam.
  - No programming background is needed to complete the online classes or the FDP exam.
FDP Curriculum & Study Tools

IPR E-Book
8 required readings
$99 Exam Registrants

Topics in Financial Data Science
12 required readings
Free Exam Registrants

Sample Questions
Free Exam Registrants

Sample Questions

3 required books
- Data Science for Business
- Big Data and Machine Learning in Quantitative Investment
- An Introduction to Statistical Learning

Exam Registrants can look for best available price.
FDP Online Classes

Choose one of the following providers

- **DataCamp**
  - 2 Python or 2 R classes
  - Complete before or after the FDP exam
  - Independent study
  - Start anytime
  - As low as $30

- **DataQuest**
  - 2 Python or 2 R classes
  - Complete before or after the FDP Exam
  - Independent study
  - Start anytime
  - As low as $30

- **METIS**
  - 36 hrs in 12 sessions
  - Course start every month
  - Instructors available
  - $750
## Exams Registration & Fees

### Exam Window: March 16 – April 4, 2020

<table>
<thead>
<tr>
<th>Registration Open</th>
<th>Early Registration Deadline</th>
<th>Regular Registration Closes</th>
<th>FDP Exam Window</th>
</tr>
</thead>
<tbody>
<tr>
<td>December 1, 2019</td>
<td>January 18, 2020</td>
<td>March 5, 2020</td>
<td>March 16 – April 4, 2020</td>
</tr>
</tbody>
</table>

### Registration Fees

- **Registration Fee** *(refund policy)*
  - Early Registration: $950
  - Standard Registration: $1150
  - Retake: $450
- **Enrollment Fee** *(non-refundable)*
  - Early Registration: $400
  - Standard Registration: $400

**Total**
- Early Registration: $1350
- Standard Registration: $1550
- Retake: $450

CAIA Members are eligible to a 20% discount on the Registration Fee.
2019 Exam stats

- **Two-thirds** of new FDP Charterholders are based in the Americas; with the balance evenly split between EMEA and APAC.
- Approximately **10%** of this class are women.
- FDP Charterholders are based in both **developed and emerging markets**, including UAE, South Africa, Peru, Malaysia, and Saudi Arabia.
- **53%** of FDP Charterholders are **CAIA** Members, **42%** hold the **CFA** charter.
- All of CAIA’s largest markets, including the **US, UK, Switzerland, Hong Kong, Singapore, and Canada, are represented in the first FDP class**.
- **More than four dozen individual companies** are represented in this first class.
- While the majority of the new Charterholders (38%) **work in asset management/finance, the new class also includes allocators, investment bankers, service providers, academics, and technology providers**.
- **62%** of the FDP Charterholders considered themselves beginner level in programming; **25%** are intermediate level.
- Charterholders report their primary motivation for pursing the FDP Charter is **career advancement**, followed by **continued education** and **personal satisfaction**.
- **72%** of the Charterholders already have one credential in the industry.
Questions

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• An overview of questions/answers that were posted
  (including the ones we did not get to answer)

2. FDP is Designed by the finance professional for the finance professional.

3. Registration for March 2020 is Open.

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