

## **Big Data Track Specialisation**

### **Course Module – Predictive Analytics Modeler**

#### **Career path description**

The Predictive Analytics Modeler career path prepares students to learn the essential analytics models to collect and analyze data efficiently. This will require skills in predictive analytics models, such as data mining, data collection and integration, nodes, and statistical analysis. The Predictive Analytics Modeler will use tools for market research and data mining in order to predict problems and improve outcomes.

#### **General information**

##### **Delivery method**

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20% web-based and 80% instructor led

##### **Version**

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2017

##### **Product**

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IBM SPSS Modeler

##### **Audience**

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Undergraduate senior students from IT related academic programs i.e. computer science, software engineering, information systems and similar others

##### **Learning objectives**

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After completing this course, you should be able to:

- The importance of analytics and how its transforming the world today
- Understand how analytics provided a solution to industries using real case studies
- Explain what is analytics, the various types of analytics, and how to apply it
- Improve efficiency, sample records, and work with sequence data
- Explain data transformations, and functions
- Understand modeling, relationships, derive and reclassify fields
- Integrate and collect data
- Understand the principles of data mining
- Use the user interface of modeler to create basic program streams
- Read a statistics data file into modeler and define data characteristics
- Review and explore data to look at data distributions and to identify data problems, including missing values
- Use the automated data prep node to further prepare data for modeling
- User a partition node to create training and testing data subsets

##### **Prerequisites Skills**

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- English Proficiency
- Basic Internet and web browser usage experience

- Basic analytics experience
- Exposure to the IBM Skills Academy Portal learning environment
- Exposure to the IBM Skills Academy Cloud hands-on labs platform

## Hardware requirements

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### Classroom (ILT) setup requirements

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Processor	Intel Core i7 CPU @ 2.7 GHz
GB RAM	8 GB
GB free disk space	60 GB
Network requirements	No
Other requirements	IBM ID

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