

Business Analytics Professionals

Learn to Develop Artificial Intelligence (AI) Applications with R - Open Source Program Language



Two - Day Course for Business Analytics Professionals

Focused to Hands - On Training Needed to Build Ai Applications

Learn + Develop + Build Custom AI Applications that Benefit Your Organization

Use Your Custom Applications for Predictive Modeling Deep Learning

Extracting Mission Critical Information



THE COLLEGE OF NEW JERSEY
OFFICE OF CONTINUING AND
PROFESSIONAL EDUCATION

Presented by Geoffrey Hubona, PhD, MIS



Visiting Associate Professor at
Texas A&M International University
Founded, and currently serves as
Director of R-Courseware
Taught Undergraduate and Graduate
Level Courses at
Georgia State University and
Virginia Commonwealth University

Match Your Learning Style You Choose!

Live Remote Instruction
or
Live In Person Instruction at
The College of New Jersey
Ewing, New Jersey

Course Fee - Registration - Schedule at

<https://cpe.tcnj.edu/data-analytics-modeling/>

Contact George Hefelle
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Learn to Develop Artificial Intelligence (AI) Applications with R - Open Source Program Language

Why should you learn AI with R?

Data science is driving the AI market, with organizations looking to leverage AI capabilities for predictive modeling. To leverage these capabilities, organizations need developers trained in developing Artificial Intelligence applications using R. This 2-day course trains business analytics professionals to get started developing AI applications of benefit to their organization.

This is the age of AI. Businesses all over the world are looking for smarter tools and applications that help them reduce efforts and maximize profits. This 2-day course will show you how to get started using AI, using R – the popular programming language used by many statisticians and data scientists around the world. The course begins by presenting the foundations of Artificial intelligence – what it is and why it is needed, followed by four one-half day “hands-on” presentations building AI applications: as machine learning “classifier” apps; as predictive neural network apps; and as text mining natural language processing (NLP) apps.

Learning to build and use these AI applications with R will quickly enable you to develop custom AI apps to deploy within your own organization: applications for predictive modeling, for deep learning, for extracting mission-critical information from reams of text, and so forth. The focus of this course is on the “hands-on” training necessary to build your own AI applications.

Course Software

The course uses the most current versions of R software and the RStudio IDE for R, both freely-available no-cost software suites.

Other Course Material

This 2-day course assumes a basic familiarity with R software (and with the RStudio IDE). For any participant who requires additional instruction on the basics of using R, we provide this asynchronous on-line course **at no additional cost** to participants:

<https://www.udemy.com/comprcourse/>

It is recommended that participants have some working knowledge of R as described by the above course material up through the sixth section, User-Defined Functions. However, participants can review this Introduction to R material ‘on their own schedule’ either before, or after, taking the TCNJ 2-day course.

Participants will have permanent, lifetime access to the above introductory R course material, as guaranteed by Udemy.

Registration - Course Schedules - Fees at

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Learn How to Use R Open Source Program Language for Data Analytics



Two - Day Course for Business Analytics Professionals

Help Your Organization Gain the DATA Competitive Advantage

Learn New Ways to Extract Mission - Critical Information

Hands - On Instruction in Using R for Areas of Data Analytics: Data Exploration and Visualization Decision Trees Text Mining and More!



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Learn How to Use R Open Source Program Language for Data Analytics

Why should you learn Data Analytics with R?

Most organizations have been collecting volumes of data for decades, without fully understanding how to use this vast data resource to grow their business and to gain a competitive advantage. Data volumes are growing and the pace of that growth is accelerating. Data relating to inventory, product sales, customer surveys, and social media are just a few of the data sources being widely collected. These and other data sources bring a volume, velocity, and variety of data, challenging the utility of conventional techniques for extracting actionable mission-critical information from this burgeoning resource. Forward-looking organizations are harnessing new prescriptive, predictive and diagnostic data analytics techniques in creative ways to achieve unprecedented value and competitive advantage from this data. This 2-day course trains business professionals how to analyze vast volumes of data to directly benefit the goals and objectives of their organization.

Data analytics is the process of inspecting, cleansing, transforming, and modeling data with the goal of discovering useful information, suggesting conclusions, and supporting decision-making. Data mining is a particular data analysis technique that focuses on modeling and knowledge discovery for predictive rather than purely descriptive purposes, while business intelligence covers data analysis that relies heavily on aggregation, focusing on business information. In statistical applications, data analysis is often divided into descriptive statistics, exploratory data analysis (EDA), and confirmatory data analysis (CDA). EDA focuses on discovering new features in the data and CDA on confirming or falsifying existing hypotheses. Predictive analytics focuses on application of statistical models for predictive forecasting or classification, while text analytics applies statistical, linguistic, and structural techniques to extract and classify information from textual sources, a species of unstructured data. All are varieties of data analytics.

This 2-day course will present “hands-on” instruction using R for data analytics, examining a variety of areas: data exploration and visualization; decision trees; k-means and hierarchical clustering; outlier detection; association rule mining; social network analysis; and text mining. Other “hands-on” topics and R implementation examples may also be presented.

Course Software

The course uses the most current versions of R software and the RStudio IDE for R, both freely-available no-cost software suites.

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