Omnilearn

2025

R-Programming Curriculum

Table of Content

- Our Company

- Course Description

- Key points learned

- Course Curriculum

- Career Benefits

- Omnilearn Advantage Unlocked

Our Company

❖ **Global Excellence**
Leading digital career enhancement across the globe.

❖ **Rigorous Training**
Dive into our programs for comprehensive and customised training, personalised project support and career counselling.

❖ **Empowering Millions**
Transforming lives with practical knowledge for professional success.

❖ **Globally Recognized Expertise**
Join us for industry-recognized excellence in the digital era.

Course Description

Unlock the power of data with our comprehensive R-programming course. Learn how to manipulate, analyze, and visualize data effectively using R, a leading programming language for data science. This course covers fundamental to advanced R techniques, statistical analysis, data visualization, and real-world applications, empowering you to make data-driven decisions. Perfect for aspiring data scientists, analysts, and anyone looking to enhance their data analysis skills.

Key Points Learned

- ➢ Business analytics.
- ➢ R programming and its packages.
- ➢ Data structures and data visualization.
- ➢ Apply functions and DPLYR functions.
- ➢ Graphics in R for data visualization.
- ➢ Hypothesis testing.
- ➢ Apriori algorithm.
- ➢ K-means and DBSCAN clustering.

Course Curriculum

Introduction to Business Analytics:

- Overview of business decisions and analytics.
- Types and applications of business analytics.

Introduction to R Programming:

- Understanding R and RStudio.
- R packages and their applications.

Data Structures in R:

- Vectors, lists, matrices, arrays, and data frames.

Data Visualization in R:

- Graphics in R for data visualization.
- Using ggplot2 for creating visualizations.

Course Curriculum

Data Manipulation in R:

- Using dplyr for data manipulation.
- Apply functions in R.

Statistics for Data Science:

- Descriptive and inferential statistics.
- Hypothesis testing.

Machine Learning with R:

- Supervised and unsupervised learning.
- Clustering techniques: K-means and DBSCAN.
- Association rule mining with the Apriori algorithm.

Working on Real-life Projects:

- Hands-on experience with industry-relevant projects.

Career Benefits

➢ Master R programming to analyze and manipulate data, making you highly sought after for data analysis and statistical roles.

➢ Gain expertise in data visualization and statistical modeling, enhancing your ability to derive insights from complex datasets.

➢ Develop proficiency in working with large datasets and applying machine learning algorithms, valuable in data science and analytics positions.

➢ Improve your problem-solving and analytical thinking, critical for making data-driven decisions in various industries.

➢ Boost career prospects by becoming skilled in R, a widely used tool in academia, finance, healthcare, and tech sectors.

Omnilearn Advantage Unlocked

➢ Tailored course material to suit the learner's experience and knowledge level.
➢ Real-world projects to apply concepts and enhance learning.
➢ Access to downloadable resources for future reference.
➢ Practice exams that mimic real test conditions to boost exam readiness.
➢ Industry-recognized certificate awarded upon program completion.
➢ Round-the-clock support for all learner inquiries.
➢ Year-long access to recorded lessons for review and learning at your convenience.

Contact Us

📞 🇮🇳 **+91 812 697 8547**

🇨🇦 **+1 431 688-6546**

✉️ **operations@theomnilearn.com**

🌐 **www.theomnilearn.com**

📍 **India | Canada | Uae**