



# R Programming Program

## Master R. Speak the Language of Data Science.

R is a powerful language for statistical computing, data visualization, and analytics. Widely used in research, healthcare, finance, and academia, R is the preferred tool for statisticians and data analysts worldwide.

At **Certed Technologies**, our **R Programming Program** provides hands-on training in R for real-world data analysis, predictive modeling, and reporting.

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## Why R? Why Now?

R is tailor-made for **data science and statistical modeling**. With strong libraries for charts, regression, time series, and machine learning, R is used by top companies and institutions in **analytics, bioinformatics, economics, and research**.

**Mastering R gives you an edge** in data-intensive roles, especially in academia, healthcare, and finance.

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## Learn from R Professionals

Our instructors include statisticians, research analysts, and data scientists who use R in real-world projects. Learn to clean, model, and visualize data—and communicate insights effectively using R.

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## Program Highlights

| Feature           | Description                              |
|-------------------|--|
| Duration          | 6 Months / 450 Hours                     |
| Delivery Mode     | Hybrid (Online + Offline)                |
| Tools & Platforms | RStudio, Tidyverse, Shiny, RMarkdown     |
| Project Work      | 5+ Domain-Specific Projects + 1 Capstone |

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|-----------------------|---|
| <b>Certifications</b> | Industry-Recognized + Analytics Skills Badge        |
| <b>Career Support</b> | Resume Support, Mock Interviews, Placement Guidance |

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## What You'll Learn

A complete R journey—from basic scripting to building data apps.

### **Module 1: Introduction to R Programming**

- Installing R & RStudio
- Variables, Data Types, Vectors, Lists
- Loops, Conditional Statements, Functions

### **Module 2: Data Manipulation with Tidyverse**

- `dplyr`, `tidyr`, `readr` for Data Wrangling
- Filtering, Grouping, Joining Datasets
- Handling Missing Values & Data Cleaning

### **Module 3: Data Visualization with `ggplot2`**

- Bar Charts, Histograms, Boxplots
- Scatterplots, Line Charts, Faceting
- Custom Themes and Interactive Visuals

### **Module 4: Statistics & Data Modeling in R**

- Descriptive Statistics, Probability Distributions
- Correlation, Hypothesis Testing, ANOVA

- Linear Regression, Logistic Regression, Time Series

## **Module 5: Machine Learning with R**

- Introduction to `caret` and ML Models
- Classification & Clustering
- Cross-validation & Model Evaluation

## **Module 6: Reporting and Dashboards**

- Creating Reports with RMarkdown
- Building Interactive Web Apps using Shiny
- Data Storytelling & Presentation

## **Module 7: Capstone Project**

- Choose a domain (Finance, Healthcare, HR, etc.)
- End-to-End Data Analysis with Reporting
- Dashboard or Report Presentation to Panel

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## **Career Outcomes**

This course prepares you for roles such as:

- R Programmer
- Data Analyst (R)
- Research/Data Scientist
- Biostatistician

- Risk & Forecast Analyst

**R is widely used in:**

Healthcare | Pharma | Government | Education | Insurance | Finance | NGOs | Research Labs

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## Tools & Technologies Covered

R | RStudio | Tidyverse | ggplot2 | dplyr | tidyr | readr | caret | RMarkdown | Shiny | lubridate | plotly | Git & GitHub

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## Capstone Project Examples

- Sales Forecasting using Time Series Models
  - Clinical Trial Data Analysis (ANOVA, Regression)
  - Interactive Shiny App for HR Attrition Analysis
  - Insurance Claim Prediction using R
  - Marketing Campaign Effectiveness Report with RMarkdown
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## Certification

Receive a **Joint Certificate** from Certed Technologies + Industry Partners and a **Digital Badge** showcasing your data analytics proficiency in R.

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## What Makes This Course Unique?

- ✓ Ideal for Statisticians, Analysts & Researchers
- ✓ Covers Core R + Machine Learning + Shiny Dashboards
- ✓ Emphasis on Interpretation, Visualization, Reporting

- ✓ Real-Life Industry Projects & Presentations
  - ✓ Lifetime Access to Learning Materials & Updates
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## Upcoming Batch

| Batch Start Date | Mode    | Status         |
|------------------|---------|----------------|
| 15 July 2025     | Online  | Open           |
| 22 July 2025     | Offline | Few Seats Left |
| 05 August 2025   | Hybrid  | Open           |

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## Custom R Programming Training for Corporates



### Data-Driven Skill Building for Research & Reporting Teams

Whether your teams are in **biotech, finance, or policy research**, R is the go-to tool for statistical computing and analytics. We offer custom programs to suit your domain, use cases, and internal tools.

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### Customization Includes:

- **Curriculum Mapping:** From beginner R to advanced modeling or Shiny dashboards
  - **Real Data Projects:** Company or domain-specific problem statements
  - **Flexible Delivery:** Online, Onsite, Hybrid
  - **Certification & Validation:** Team assessments + co-branded certification
  - **Post-Training Support:** Project guidance, mentor hours, analytics consulting
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### Ideal for Teams in:

- Research & Development (R&D)
  - Public Policy & Data Journalism
  - Health Analytics / Clinical Research
  - Risk & Compliance Reporting
  - University Research Departments
  - Marketing Analytics Units
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## Talk to an Advisor

 Email: [support@certedtechnologies.com](mailto:support@certedtechnologies.com)

 Call/WhatsApp: +91-8920158923 | +91-9009015026

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## Ready to Analyze Like a Pro?

**“R gives you the power to analyze, visualize, and present like a data scientist. Start your journey now.”**

[ **Enroll Now**] [ **Request a Callback**]

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## Frequently Asked Questions (FAQs)

- 1. Is this course beginner-friendly?**  
Yes. No prior experience with R or programming is required. We start from the basics.
- 2. Do I need a statistics background?**  
A basic understanding of statistics helps, but we cover key concepts in the course.
- 3. Can I use this for research and publication work?**  
Absolutely. R is widely used in academic and scientific research.

4. **Are there real-world projects in the course?**  
Yes. Each module includes hands-on exercises, and there is a comprehensive capstone project.
  5. **Which tools will I use?**  
RStudio, Tidyverse libraries, Shiny for dashboards, and RMarkdown for reports.
  6. **Is career support included?**  
Yes. Resume writing, interview practice, and LinkedIn profile support are all provided.
  7. **How is the course delivered?**  
Online (live + recorded), Offline (in-person), and Hybrid modes are available.
  8. **Will I get lifetime access to materials?**  
Yes. You'll have access to videos, code files, project templates, and updates for life.
  9. **Can this program be tailored for our company?**  
Yes. We design custom R training programs for corporate teams in analytics, reporting, and research.
  10. **What kind of certificate will I get?**  
A joint industry-recognized certificate + digital badge for sharing on LinkedIn and resumes.
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