

# What I teach & train professionals

## SAS programming and data analysis

### Topics Covered

#### Module 1 - Base SAS Hours -7

##### Data Structures

Introduction to SAS interface and library structure and definition

Reading data using Datalines and importing and exporting datasets

Infiles statement - reading raw data

Formats and Informats

Variable attributes and data modification using Data and Set statements

Data Management

Using conditional statements to modify data - Where, If and Nested IF

Appending and Merging datasets

SAS Functions for data manipulation

Loops and Arrays in SAS

Report Generation

Basic Proc steps - like Proc Contents

Proc Format, Proc Report and Proc Tabulate

Proc steps for basic statistics - like Proc Univariate and Proc Means

#### Module 2 - Advanced SAS Hours -7

##### Proc SQL

Introduction to SQL - basic DBMS and RDBMS concepts

Using SQL Procedures in SAS

Using conditional statements in SQL and aggregate functions

Data manipulation using Proc SQL

SAS Macros

Introduction to Macros

Local and Global declarations

Using built-in macro procedures and functions

what it do not cover!

Statistical Modeling

### Who should attend

Anyone willing to hone SAS skills

### Pre-requisites

Basic programming knowledge in any environment is an addition advantage. As sucj no pre requisite.

### What you need to bring

Laptop with SAS 9.1 installed"

### Key Takeaways

Will have hands on experience on SAS computation and go for a SAS certification.

- See more at: <https://www.urbanpro.com/bangalore/instructional-workshop-on-base-and-advanced-sas/1550129#sthash.kY7GDBMX.dpuf>

## R programming and data analysis

### Topics Covered

1. Understand the fundamentals of 'R' programming
2. Explore data manipulation with functions like lapply(), tapply(), sapply().
3. Apply various Data Importing techniques in R
4. Perform exploratory Data Analysis.
5. Data manipulation in R, univariate and bivariate analysis
6. Writing user defined R functions
6. Apply Data Visualisation to create fancy plots
7. Various distance calculation methods and classification algorithms
9. Implement k-means clustering algorithm
12. Understand the concept of Linear Regression

### Who should attend?

Any working professional, any undergrad or post grad student willing to make career in data analytics domain should attend this course.

### Pre-requisites

Some basics of programming and basic statistics knowledge

### What you need to bring

Individual laptop"

### Key Takeaways

Data Analysis in R environemnt

- See more at: <https://www.urbanpro.com/bangalore/introduction-to-r-programming-and-data-analysis/1688513#sthash.gZFcbGFn.dpuf>

## Advanced Statistical Modeling with R/SAS/SPSS

### opics Covered

- Linear regression model
- Cluster analysis
- Factor analysis
- Logistic model
- Generalized Linear Model
- ANOVA
- T test and Chi square test
- CART and decision tree
- Time series analysis
- Fitting various probability distribution

### Who should attend?

Any professional working in the area of data analysis in medical/finance/retail/Insurance/CPG domain, any researcher working in core Statistics or interdisciplinary domains, anyone willing to learn these techniques in a most lucid and practical way, any student or academic person willing to fulfill his/her personal goals are most welcome to attend the course. The guys attending the sessions should have passion to learn the subjects and having some time to complete the assignments during the course. Undergrad students with high motivation to learn can also join the course.

### **Pre-requisites**

Basic knowledge about Statistics and data would be great.

### **What you need to bring**

Laptop""

### **Key Takeaways**

Should be able to perform exploratory data analysis and modeling in SAS/SPSS and will hone a skill to select appropriate model based on the problem.

- See more at: <https://www.urbanpro.com/bangalore/statistical-modeling-with-sas-spss-mintab-jmp-excel/1030630#sthash.71LRwH1i.dpuf>