



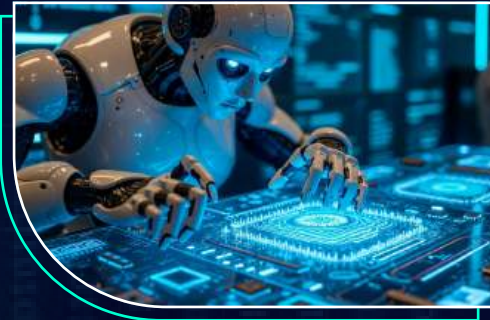
MASTER IN DATA SCIENCE WITH LATEST TECHNOLOGY ✦ SIMBA INSTITUTE

★ AI + DATA SCIENCE

"Master The Skills That Drive Innovation—Learn From Experts And Transform Your Career At Simba Institute."

In Just 12 Months

“YOUR CAREER IS OUR MISSION”



Why Study in Simba Institute

Practical, Real-World Training: At Simba Institute, We Believe in Learning by Doing. Our AI + Data Science Course Blends Theory With Hands-On, Live Projects, Ensuring You Gain Practical Experience That Employers Value.

Expert Trainers With 9+ Years Of Industry Experience: Learn From The Best! Our Trainers Bring Over Nine Years of Real-World Expertise In Data Science And AI, Offering You The Highest Level of Education And Mentorship.

100% Internship & Job Placement Assistance: We Are Committed to Your Success. Every Student At Simba Institute is Provided With a Guaranteed Internship, And We Offer 100% Job Placement Assistance to Help You Start Your Career in AI + Data Science.

State of The Art Infrastructure: Our Air-Conditioned Computer Lab, High-Speed Internet, And Modern Equipment Create The Perfect Learning Environment For You to Thrive And Excel.

Flexible Learning For All: Whether You're A Student, A Business Owner, or a Homemaker Looking to Skill Up, Simba Institute's Training is Designed to Fit All Learning Levels And Backgrounds.

Comprehensive Support And Professional Staff: Our Dedicated Team is Here to Guide You Every Step of The Way, Providing Ongoing Support Throughout Your Course And Beyond.

Our Pride

Working Since 10 Years

75+ Certified Course

10,000+ Trained Students

500+ Students New Startup

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Master in AI + Data Science Course

Module 01 - C Language



C Language Introduction

Loops In C (While, Do While & For Loop)

History & Structure of C

Array In C (1D & 2D Array, Multi-Dimensional)

Compile & Run Output in C

Switch Case in C

Variable in C

Function in C

Data Type in C

Recursion in C

Constant, Input in C

String & String Function in C

Local & Global Variable in C

File Handling in C



Ghevariya Dharmik

The emphasis on live, practical training allowed me to work on real-world projects, bridging the gap between theory and application. This hands-on approach not only enhanced my understanding but also boosted my confidence in tackling data-driven challenges. I highly recommend Simba Institute to anyone looking to excel in Data Science.

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Module 02 - C++ Language



C++ Language Introduction

Inheritance

All C Language Concepts Cover In C++

Polymorphism & Reusability

Compile & Run Output in C

Switch Case in C

Class And Object

Encapsulation & Data Hiding

Access Specifiers

Friend Function / Local & Global Variable

Constructor & Destructor

Static

Sahil Sakhvala

Completing the Python course at Simba Institute was a transformative experience. The instructors are highly knowledgeable and adept at simplifying complex concepts. I highly recommend Simba Institute to anyone looking to excel in Python.



Ghanshyam Gondaliya

Completing the Python course at Simba Institute was a transformative experience. The instructors are not only knowledgeable but also passionate about teaching, making complex concepts easy to grasp. I highly recommend Simba Institute to anyone looking to enhance their coding skills.

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Module 03 - Python



Introduction

Constructors

Tuple

Datatypes

Getter & Setter

Function

Operators

Modules

File Handling

String

MySQL Database

Class & Objects

Dictionary

Variable

Inheritance

Sets

Type Conversion

Polymorphism

Exception Handling

Loops

SQLite Database

Working With JSON

List & NumPy

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Module 04 - Introduction To Data Science



What is Data Science?

Applications of Data Science in Real Life

Data Science Lifecycle

Data Science Vs. Data Analytics Vs. AI Vs. Machine Learning

Module 05 - Python For Data Science



Python Basics (Variables, Data Types, Operators)

Control Statements (Loops, If-Else)

File Handling

Exception Handling

Functions & Modules

Introduction To NumPy & Pandas

Data Science Lifecycle

Module 06 - Mathematics For Data Science



Linear Algebra (Vectors, Matrices)

Descriptive & Inferential Statistics

Probability & Statistics (Mean, Median, Variance, Standard Deviation)

Probability Distributions (Normal, Binomial, Poisson)

Hypothesis Testing & Confidence Intervals

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Module 07 - Data Wrangling & Preprocessing



Handling Missing Data

Data Cleaning & Transformation

Feature Engineering

Handling Outliers

Encoding Categorical Data

Data Normalization & Standardization

Module 08 - Data Visualization



Matplotlib & Seaborn For Data Visualization

Plotly & Dash For Interactive Visualizations

Bar Charts, Histograms, Scatter Plots, Box Plots

Heatmaps, Pair Plots

Module 09 - Exploratory Data Analysis (EDA)



Understanding The Dataset

Correlation Analysis

Identifying Patterns & Trends

Dimensionality Reduction (PCA, T-SNE)

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Module 10 - Machine Learning Basics



Supervised Vs. Unsupervised Learning

Train-Test Split & Cross-Validation

Types of ML Algorithms

Bias-Variance Tradeoff

Overfitting & Underfitting

Module 11 - Supervised Learning Algorithms



◆ Regression Models ◆

Linear Regression

Polynomial Regression

Ridge & Lasso Regression

◆ Classification Models ◆

Logistic Regression

Decision Trees

Random Forest

Support Vector Machine (SVM)

Naive Bayes

K-Nearest Neighbors (KNN)

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Module 12 - Unsupervised Learning Algorithms



Clustering (K-Means, DBSCAN, Hierarchical)

Dimensionality Reduction (PCA, LDA)

Association Rule Learning (Apriori, Eclat)

Module 13 - Advanced Machine Learning



Ensemble Learning (Bagging, Boosting, XGBoost)

Hyperparameter Tuning (Grid Search, Random Search)

Feature Selection Techniques

Model Evaluation Metrics (Precision, Recall, F1-Score, AUC-ROC)

Module 14 - Deep Learning & Neural Networks



Introduction To Deep Learning

Basics Of Neural Networks

Activation Functions (ReLU, Sigmoid, Tanh)

Backpropagation & Gradient Descent

TensorFlow & Keras Basics

Building A Neural Network Model

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Module 15 - Natural Language Processing (NLP) ↓

Text Preprocessing (Tokenization, Lemmatization, Stopwords)

Sentiment Analysis

TF-IDF & Word Embeddings

Named Entity Recognition (NER)

Chatbot Development

Module 16 - Computer Vision ↓

Image Processing With OpenCV

Convolutional Neural Networks (CNN)

Object Detection (YOLO, SSD)

Image Classification & Recognition

Module 17 - Big Data & Cloud Computing ↓

Introduction To Big Data & Hadoop

Working With Spark & PySpark

Cloud Platforms For Data Science (AWS, Google Cloud, Azure)



Ayush Ramani

I had an excellent learning experience at Simba Institute's Python course. The faculty's expertise and dedication to student success are evident in their teaching methods. The course offers a perfect blend of theory and practice, with real-world projects that enhance understanding.

Our Support

Our Support



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ISO Certified Certificate

Freelancing Work

Personality Development

Interview Preparation

Expert Faculty

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