



Data Science

Master Program by Sprintzeal

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COURSE CURRICULUM

Programming Basics

Module 01 - Course Introduction

Module 02 - Programming Basics

Statistics Essential for Data Science

Module 01 - Introduction

Module 02 - Sample or Population Data?

Module 03 - The Fundamentals of Descriptive Statistics

Module 04 - Measures of Central Tendency, Asymmetry, and Variability

Module 05 - Practical Example: Descriptive Statistics

Module 06 - Distributions

Module 07 - Estimators and Estimates

Module 08 - Confidence Intervals: Advanced Topics

Module 09 - Practical Example: Inferential Statistics

Module 10 - Hypothesis Testing: Introduction

Module 11 - Hypothesis Testing: Let's Start Testing!

Module 12 - Practical Example: Hypothesis Testing

Module 13 - The Fundamentals of Regression Analysis

Module 14 - Subtleties of Regression Analysis

Module 15 - Assumptions for Linear Regression Analysis

Module 16 - Dealing with Categorical Data

Module 17 - Practical Example: Regression Analysis

R Programming for Data Science

Module 01 - R Basics

Module 02 - Data Structures in R

Module 03 - R Programming Fundamentals

Module 04 - Working with Data in R

Module 05 - Stings and Dates in R

Data Science with R

Module 01 - Introduction to Business Analytics

Module 02 - Introduction to R Programming

Module 03 - Data Structures

Module 04 - Data Visualization

Module 05 - Statistics for Data Science I

Module 06 - Statistics for Data Science II

Module 07 - Regression Analysis

Module 08 - Classification

Module 09 - Clustering

Module 10 - Association

Python for Data Science

Module 01 - Python Basics

Module 02 - Python Data Structures

Module 03 - Python Programming Fundamentals

Module 04 - Working with Data in Python

Module 05 - Working with NumPy Arrays

Data Science with Python

Module 01 - Data Science Overview

Module 02 - Data Analytics Overview

Module 03 - Statistical Analysis and Business Applications

Module 04 - Python Environment Setup and Essentials

Module 05 - Mathematical Computing with Python (NumPy)

Module 06 - Scientific Computing with Python (Scipy)

Module 07 - Data Manipulation with Pandas

Module 08 - Machine Learning with Scikit-Learn

Module 09 - Natural Language Processing with Scikit Learn

Module 10 - Data Visualization in Python using Matplotlib

Module 11 - Web Scraping with BeautifulSoup

Module 12 - Python Integration with Hadoop MapReduce and Spark

Machine Learning

Module 01 - Introduction to Artificial Intelligence and Machine Learning

Module 02 - Data Wrangling and Manipulation

Module 03 - Supervised Learning

Module 04 - Feature Engineering

Module 05 - Supervised Learning Classification

Module 06 - Unsupervised Learning

Module 07 - Time Series Modeling

Module 08 - Ensemble Learning

Module 09 - Recommender Systems

Module 10 - Text Mining

Tableau

Module 01 - Getting Started with Tableau

Module 02 - Core Tableau in Topics

Module 03 - Creating Charts in Tableau

Module 04 - Working with Metadata

Module 05 - Filters in Tableau

Module 06 - Applying Analytics to the worksheet

Module 07 - Dashboard in Tableau

Module 08 - Modifications to Data Connections

Module 09 - Introduction to Level of Details in Tableau (LODS)

Natural Language Processing

Module 01 - Introduction to Natural Language Processing

Module 02 - Feature Engineering on Text Data

Module 03 - Natural Language Understanding Techniques

Module 04 - Natural Language Generation

Module 05 - Natural Language Processing Libraries

Module 06 - Natural Language Processing with Machine Learning and Deep Learning

Module 07 - Speech Recognition Technique

Data Science Hands-On Project