



# DATA SCIENCE

**SIAA**

India's 1st Advanced Automation Research Center

## SIAA CERTIFICATION IN DS

### DATA SCIENCE EXPERT PROGRAM

SIAA's Data Science Training Program enables you to master the data science and machine learning skills. Experience world-class training and practices. Learn about python and data science tools. Accelerate your career with advance knowledge about data science and become a data science expert.

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Visit: [www.siaa.tech](http://www.siaa.tech), Call: (+91) 8800302505 / 8800301109  
Email us: [hello@siaa.tech](mailto:hello@siaa.tech).

# About US

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SIAA is India's 1st Advanced automation research centre which is responsible for driving applied research for multiple industries like agriculture, manufacturing, construction, healthcare and defence. SIAA, being the fastest-growing academia brand in Asia, also provides training and certification in advance technologies to academia and corporate that increase professional's skill capabilities.

## Course Benefits

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- ➡ Prove Your Data Science skill & understandings
- ➡ Gain in-depth knowledge of DS & Its implementation
- ➡ Implement your skills in data cleaning & modeling
- ➡ Readiness for advanced algorithms development
- ➡ SIAA Certification in AI

## Career Facts

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### Top Job Functions

A data scientist is the hottest field today. Expert data scientist create value out of data. This certification course provides you an in-depth overview of data analytics techniques.

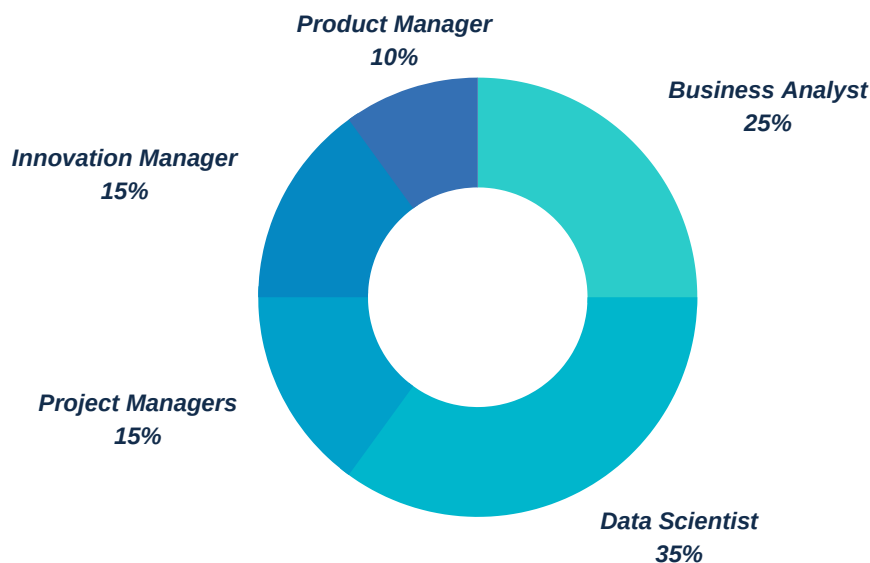


Figure: Donut Chart (Top Job Function)

# Program Features

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- ➡ Real-time industry projects
- ➡ 30-days of intense learning
- ➡ Instructor-led training
- ➡ Flexible to choose classes
- ➡ Accredited SIAA Certificate

# Who Should Enroll

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- ➡ Basic programming background
- ➡ Hobbieist
- ➡ Engineering Students
- ➡ Engineering Post-Grad students
- ➡ Software Engineer

# Table of Content:

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## Lesson:-1 Introduction to Data Science

- What is Data Science
- Install Python and Anaconda.
- Installing packages: numpy, pandas, matplotlib, sklearn)

## Lesson- 2 Python

- Introduction to Python
- Flow Control (If, for, while) Statements
- Data Structures
- Numbers
- Lists
- Tuples
- Dictionary
- Strings
- Functions and classes in Python

## Lesson-3 Numpy

- Narray Object
- Data Types in Numpy
- Array Attributes and Manipulation in Numpy
- Indexing & Slicing
- Iterating Over Array
- Binary Operators in Numpy
- Mathematical Functions in Numpy
- Arithmetic Operations in Numpy
- Matrix Library in Numpy



#### **Lesson-4 Pandas**

- Data Structures in Pandas
- Series and Data Frame in Pandas
- Basic Functions in Pandas
- Iteration
- Sorting
- Reindexing
- Indexing and Selecting Data
- Missing Data
- Groupby
- Merging/ Joining
- Concatination
- Categorical
- Data

#### **Lesson-5 Metplotlib**

- 2D Plotting with matplotlib
- Plotting with keyword strings
- Plotting with categorical variables

#### **Lesson-6 Scikit-Learn**

- Regression
- Simple Linear Regression
- Multiple Linear Regression
- Support Vector Regression
- Decision Tree Regression
- Random Forest Regression
- Classification
- Support Vector Classification(SVM)
- K - Nearest Neighbour Algorithm(KNN)
- Naive Bayes Classification
- Decision Tree Classification
- Random forest Classification
- K-means Clustering Algorithm
- Hierarchical clustering



For More Information,  
Call at: (+91) 8800302505 / 8800301109  
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SIAA is an initiative by Schleife Automation Company which offers advance level automation training solutions to corporate and academia. SIAA is developing a degree independent platform for professionals across the globe to validate the skill set. SIAA has introduced the most facilitated technology training of automation with the collaboration of industry experts and hi-tech companies. We made it possible for the learners to feel the real-time industry experience in the live environment and enables them to tackle the real industry problems.

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