WISECANDY ACADEMY
BUILT FOR LEARNERS, BACKED BY INDUSTRY

#1 IT INSTITUTE

DATA SCIENCE | DATA ANALYSIS
FRONT END | MERN | BACK END
JAVA | REACT | WEBSITE DESIGNING
SOFTWARE TESTING | HTML | CSS | JAVA | PYTHON
PLACEMENT | DIGITAL MARKETING

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DATA SCIENCE

Course Curriculum

9 Month | Online & Offline

The Data Science course at WiseCandy Academy is crafted to equip students with the skills and knowledge needed to excel in the dynamic field of data science and predictive modeling. The curriculum covers various crucial topics such as data collection and cleaning, learners gain hands-on experience using tools like Python, SQL, and TableAnd.

The course blends theoretical foundations with real-world datasets and industry-standard tools, ensuring a comprehensive learning experience.

Students also complete a 3-month internship to apply their skills in live data-driven environments.

WiseCandy Academy helps students build a professional project portfolio and connects them with data centric companies and startups. With personalized mentorship, career support, mock interviews, and resume reviews, we prepare learners for roles like Data Analyst, Machine Learning Engineer, Data Scientist, Business Intelligence Analyst.

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SUCCESS

WHY LEARN DATA SCIENCE

Data Science is a transformative and fast-growing field focused on extracting insights and value from data. It's not just about crunching numbers anymore. It's about using real-world problems through analysis, prediction, and intelligent decision-making. With tools like Python, SQL, Excel, Power BI, and TableAnd, businesses and data-driven professionals are leveraging data science for strategic advantages. With data at the core of modern innovation, this career path is ideal for curious minds who love working with numbers, logic, and impactful results.

Average Salary in India:
Entry-level Data Scientist: ₹4 – ₹6 LPA
Mid-level Data Scientist: ₹8 – ₹12 LPA
Senior Data Scientist: ₹15 – ₹25 LPA

Average Salary Worldwide:
$90,000 – $150,000

Salary Source:
Glassdoor.com
Ambitionbox.com
Payscale.com

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DATA SCIENCE

CAREER IN DATA SCIENCE

A career in Data Science opens up exciting opportunities across industries like finance, healthcare, technology, and beyond. It involves using data-driven insights to solve real-world problems, drive business decisions, and uncover hidden patterns. Data Science combines programming, statistics, and domain knowledge to analyze trends, build predictive models, and support business strategies. Roles such as Data Analyst, Machine Learning Engineer, and Business Intelligence Analyst are available in fast-growing sectors, offering competitive salaries and long-term growth. Strong tools like Python, SQL, R, and machine learning frameworks, data scientists are in high demand for uncovering insights, optimizing operations, and driving intelligent solutions.

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At WiseCandy Academy, we believe that great outcomes start with great planning. Our curriculum is carefully crafted by brainsmith, academia, and industry experts to ensure students both technically and professionally.

Data Science Course Overview

- **Executive Program: 9 Months**
  Master data analysis and machine learning with our hands-on course
- **Project Internship - 3 Months**
  Gain hands-on experience with 3-5 Months project internship
- **Online Class & Offline Class**
  Flexible learning both online and offline classes available.
- **Portfolio Development**
  Build a strong Data Science portfolio with real-world projects and expert mentorship.
- **1:1 Mentorship & Doubt Support**
  Personalized 1:1 mentorship and instant doubt support throughout your development journey.

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KEY FEATURES

- WEEKLY DOUBT SESSION
- PERSONAL MENTORSHIP
- PROFESSIONAL DEVELOPMENT
- 1 MONTH MOCK INTERVIEW & RESUME PREPARATION
- TOPIC-WISE CURRICULUM

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DATA SCIENCE COURSE CURRICULUM (9 MONTHS)

INTRODUCTION TO DATA SCIENCE

- Understanding Data Science and its Importance in Modern Business
- Roles and Responsibilities of a Data Scientist
- Data Science Lifecycle (Problem Understanding → Data Collection → Cleaning → Modeling → Deployment)
- Real-World Applications of Data Science (Finance, Healthcare, E-commerce, Marketing etc.)
- Types of Data (Structured, Semi-Structured, Unstructured)
- Overview of Data Science Tools (Python, SQL, Power BI, ML Libraries)
- Career Opportunities and Industry Scope

PYTHON PROGRAMMING FOR DATA SCIENCE

PYTHON BASICS

- Python Installation and IDE Setup
- Understanding Python Syntax and Code Structure
- Variables, Data Types and Type Conversion
- Operators (Arithmetic, Logical, Relational)
- Conditional Statements (if-else, nested conditions)
- Loops (for, while, break, continue, pass & continue)
- Functions (User Defined Functions, Parameters, Return Values)
- Lists, Tuples, Sets and Dictionaries
- String Handling and Operations

ADVANCED PYTHON

- Object Oriented Programming (Classes, Objects, Constructors)
- Inheritance and Polymorphism
- File Handling (Reading and Writing Files)
- Exception Handling Techniques
- Lambda Functions and Map / Filter
- List Comprehensions
- Working with External Libraries

NUMPY FOR NUMERICAL COMPUTATION

- Introduction to NumPy Arrays
- Array Indexing and Slicing
- Mathematical and Statistical Operations
- Broadcasting Concept
- Matrix Operations
- Random Number Generation
- Performance Comparison with Python Lists

GOOGLE ADS BASIC

- Introduction to Google Ads
- Google Ads Account Setup
- Campaign Structure Understanding
- Search Ads Campaign Creation
- Keyword Match Types
- Ad Copy Writing Basics
- Budget & Bidding Basics
- Campaign Monitoring

DATA ANALYSIS WITH PANDAS

DATA HANDLING

- Introduction to Pandas Series and DataFrame
- Importing Data from CSV, Excel and JSON
- Viewing and Understanding Dataset Structure
- Handling Missing Values
- Removing Duplicate Records
- Data Type Conversion

DATA MANIPULATION

- Filtering and Sorting Data
- Conditional Selection
- Groupby Operations
- Aggregation Functions
- Merging and Joining Multiple Datasets
- Pivot Tables
- Feature Creation and Date Transformation

DATA HANDLING

- Introduction to Pandas Series and DataFrame
- Importing Data from CSV, Excel and JSON
- Viewing and Understanding Dataset Structure
- Handling Missing Values
- Removing Duplicate Records
- Data Type Conversion

DATA VISUALIZATION

MATPLOTLIB

- Introduction to Data Visualization Concepts
- Line Charts for Trend Analysis
- Bar Charts for Category Comparison
- Histograms for Distribution Analysis
- Scatter Plots for Relationship Analysis
- Graph Customization (Labels, Legends, Colors)

SEABORN

- Distribution Plots
- Heatmaps for Correlation Analysis
- Pairplots for Multi-Variable Analysis
- Pairplots for Multi Variable Analysis
- Advanced Styling Techniques
- Data Storytelling using Visualization

STATISTICS & PROBABILITY FOR DATA SCIENCE

- Descriptive Statistics (Variance
- Mean, Median, Mode
- Variance and Standard Deviation
- Probability Basics and Rules
- Normal Distribution
- Sampling Techniques
- Hypothesis Testing
- Correlation Analysis
- Regression Concepts

MACHINE LEARNING

MACHINE LEARNING FUNDAMENTALS

- Introduction to Machine Learning
- Types of Machine Learning Algorithms
- Supervised vs Unsupervised Learning
- Dataset Splitting (Train-Test Validation)
- Model Evaluation Metrics (Accuracy, Precision, Recall, F1-Score)

ADVANCED MACHINE LEARNING

- Random Forest Algorithm
- Support Vector Machine
- Naive Bayes Algorithm
- Gradient Boosting Basics

UNSUPERVISED LEARNING

- K-Means Clustering
- Hierarchical Clustering
- Principal Component Analysis (Dimensionality Reduction)

MODEL OPTIMIZATION & DEPLOYMENT

- Cross Validation Techniques
- Hyperparameter Tuning
- Feature Engineering Techniques
- Pipeline Creation
- Introduction to Model Deployment
- Building ML Web App using Streamlit
- Model Testing and Performance Monitoring

LIVE INDUSTRY PROJECTS

- Sales Forecasting using Machine Learning
- Customer Segmentation using Clustering
- Churn Prediction Model
- Recommendation System Basic Model
- End to End Data Analysis Dashboard Project

CAREER SUPPORT & PLACEMENT

- Resume Building for Data Science Roles
- GitHub Portfolio Development
- LinkedIn Profile Optimization
- Mock Interviews
- Case Study Discussions
- Real Industry Case Studies
- Placement Assistance

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Python | Google Ads
Data Handling | Machine Learning
Numpy | Data Visualization