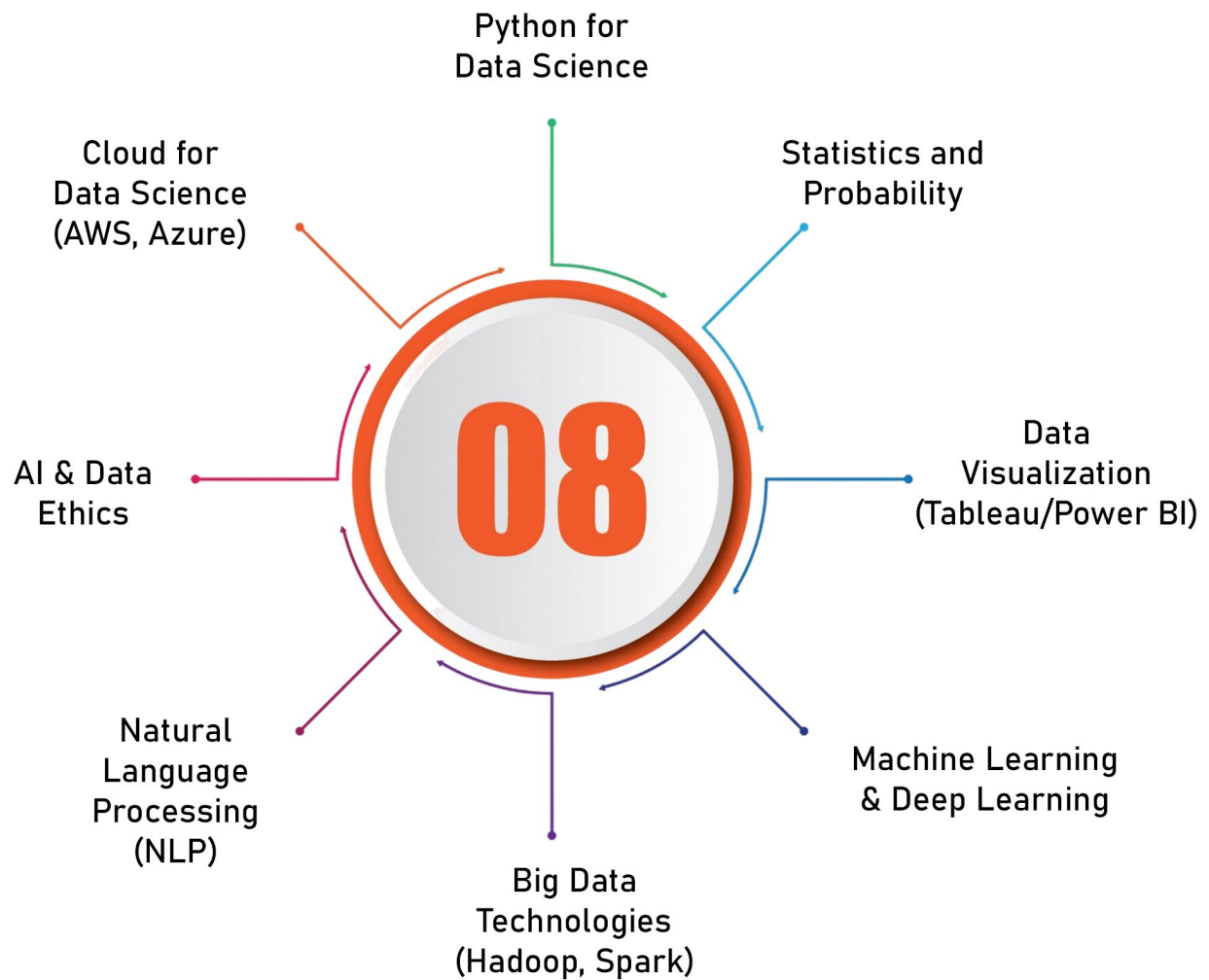# Master's in
DATA SCIENCE

TABLE OF CONTENTS

ABOUT THE PROGRAM

The Master's in Data Science program by Career Amend is a comprehensive, industry-aligned course designed to equip learners with cutting-edge knowledge in data analytics, machine learning, artificial intelligence, and big data technologies. This program blends theoretical concepts with practical applications, preparing you for a future-ready career in data science.

TRAINING PHASE:
MODULES AND PROJECTS

Our training phase combines instructor-led sessions with real-time projects to help you apply what you learn.

MODULES INCLUDE:

08

- Python for Data Science
- Statistics and Probability
- Data Visualization (Tableau/Power BI)
- Machine Learning & Deep Learning
- Big Data Technologies (Hadoop, Spark)
- Natural Language Processing (NLP)
- AI & Data Ethics
- Cloud for Data Science (AWS, Azure)

CAPSTONE PROJECTS:

1 Customer Segmentation

2 Stock Market Prediction

3 Image & Text Classification

4 Recommendation Systems

INTERNSHIP AND PLACEMENT SUPPORT

We provide dedicated support to help you land a high-impact role in the data science domain.

- Internship opportunities with partner companies

- Resume building & interview preparation

- One-on-one career coaching

- Mock interviews with industry experts

CURRICULUM OVERVIEW

Semester 1:
Foundation & Core Skills

Introduction to Data Science

- Data science lifecycle
- Real-world applications and case studies
- Role of a data scientist

Statistics and Probability for Data Science

- Descriptive and inferential statistics
- Probability distributions
- Hypothesis testing and confidence intervals

Programming for Data Science (Python & R)

- Data types, loops, functions
- Python libraries: NumPy, Pandas, Matplotlib
- Data manipulation and scripting with R

Data Wrangling and Visualization

- Cleaning and transforming raw data
- Handling missing values and outliers
- Data visualization using Seaborn, Plotly, Tableau/Power BI

Databases & SQL

- Relational databases
- Writing complex SQL queries
- Data extraction and joining tables

Semester 2: Advanced Concepts & Applications

Machine Learning

- Supervised and unsupervised learning
- Regression, classification, clustering
- Model evaluation and tuning (cross-validation, confusion matrix, etc.)

Deep Learning & Neural Networks

- Introduction to deep learning
- Neural networks using TensorFlow/Keras
- CNNs, RNNs, and their applications

Big Data Technologies

- Hadoop ecosystem (HDFS, MapReduce)
- Apache Spark for large-scale data processing
- Introduction to NoSQL (MongoDB)

Natural Language Processing (NLP)

- Text preprocessing
- Sentiment analysis
- Named Entity Recognition (NER)
- NLP libraries: NLTK, spaCy

Business Intelligence and Data-Driven Decision Making

- KPIs and metrics
- Business dashboards
- Data storytelling and decision frameworks

Capstone Projects

KEY
HIGHLIGHTS

01 12 months of immersive learning

02 Hands-on Capstone Projects

03 Real-world Internship Opportunities

04 Resume Building & Interview Preparation

05 1:1 Career Counseling and Mentorship

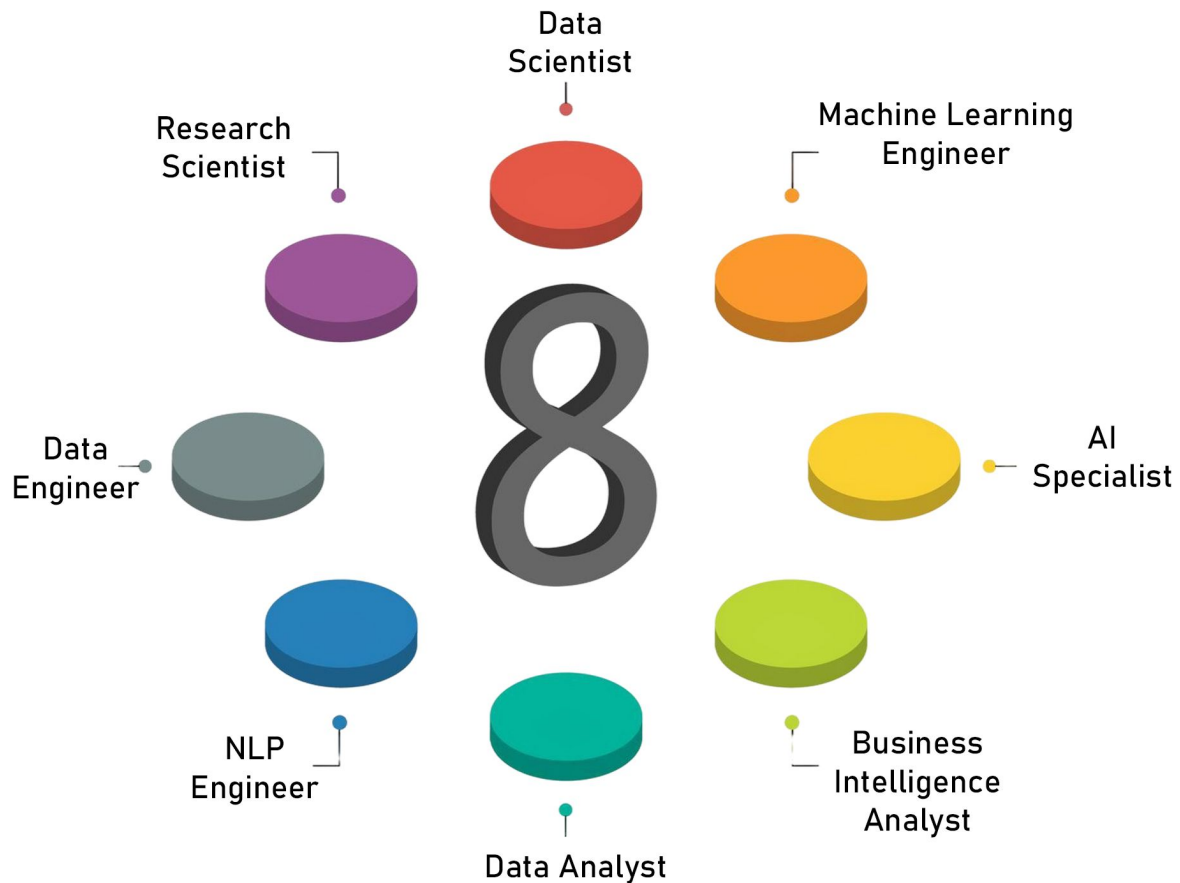**06** Placement Assistance with Top Companies

WHY CHOOSE
CAREER AMEND?

- Learn from industry experts with real-world project experience

- Access personalized mentorship and career guidance

- Receive dedicated placement support and mock interview preparation

- Build a strong professional portfolio with capstone projects

- Stay updated with the latest industry trends and tools

- Connect with a strong network of hiring partners and top companies

- Partnerships with leading tech companies & startups

CAREER
OPPORTUNITIES

Upon completion, you can apply for roles such as:

Data Scientist

Research Scientist

Machine Learning Engineer

Data Engineer

AI Specialist

NLP Engineer

Business Intelligence Analyst

Data Analyst

ADMISSION
PROCESS

Application Submission:
Fill out the online application form.

Get a Call:
Receive a call from a dedicated counselor to discuss your path.

Enrollment:
Confirm your seat by completing the admission process.

HIRING PARTNERS

Microsoft · aws · Google Cloud

accenture · Deloitte. · MANDIANT

VISA · BARCLAYS · SIEMENS

500startups · MSSP STORE · certin
Enhancing Cyber Security in India

Career Amend

Your Path to a Guaranteed Career

Q careeramend.com

For further details, contact:

M info@careeramend.com   USA: +1 (209) 268-2813 | IND : +91-8826318874 | UK: +44 161 818 7696

https://www.careeramend.com/doctorate-in-business-administration

Addresses

US
5900 Balcones Drive, Suite 100,
Austin, Texas, 78731

INDIA
Sector 62, Noida, Uttar Pradesh
201309

UK
12 Steward Street, The Steward
Building, London, E1 6FQ, Great Britain