



iUniversity
BY IYDA

Executive Certificate in Data Science & Machine Learning

iUniversity by IYDA

Duration	6 Months
Course Hours of Learning	220 Hours
Mode	Online / Offline / Hybrid
Eligibility	10+2 / Graduate / Working Professionals
Level	Beginners to Advanced
Certification	Executive Certificate from iUniversity by IYDA

Module 1: Python Programming for Data Science

Practical learning through hands-on labs, assignments, and real-world applications.

Module 2: Statistics & Probability

Practical learning through hands-on labs, assignments, and real-world applications.

Module 3: Data Wrangling & Visualization

Practical learning through hands-on labs, assignments, and real-world applications.

Module 4: Exploratory Data Analysis

Practical learning through hands-on labs, assignments, and real-world applications.

Module 5: Machine Learning Fundamentals

Practical learning through hands-on labs, assignments, and real-world applications.

Module 6: Supervised Learning Algorithms

Practical learning through hands-on labs, assignments, and real-world applications.

Module 7: Unsupervised Learning Algorithms

Practical learning through hands-on labs, assignments, and real-world applications.

Module 8: Feature Engineering

Practical learning through hands-on labs, assignments, and real-world applications.

Module 9: Model Evaluation & Optimization

Practical learning through hands-on labs, assignments, and real-world applications.

Module 10: Deep Learning Fundamentals

Practical learning through hands-on labs, assignments, and real-world applications.

Module 11: Machine Learning Deployment

Practical learning through hands-on labs, assignments, and real-world applications.

Module 12: Capstone Project & Industry Case Studies

Practical learning through hands-on labs, assignments, and real-world applications.

Tools & Technologies Covered:

- Python
- Jupyter Notebook
- Google Colab
- NumPy
- Pandas
- Matplotlib
- Seaborn
- Scikit-learn
- TensorFlow
- Keras
- SQL
- GitHub

Career Opportunities:

- Data Scientist
- Machine Learning Engineer
- Data Analyst
- Business Analyst
- AI Engineer
- Research Associate
- Data Engineer
- ML Consultant
- Analytics Specialist
- AI Solutions Developer