

Data Science Curriculum

From Python fundamentals to machine learning and deep learning — a hands-on, project-driven program built to turn raw data into real decisions.



35+

Industry Certifications

6+

Live projects

13.6k+

Students Trained

WHO WE ARE

Our Mission & Vision

Skillumni is a leading edtech platform focused on transforming careers through high-quality upskilling and training across diverse industries. We connect learners with cutting-edge courses, expert mentors, and practical projects to bridge the gap between education and real-world careers.



Our Vision

To empower every learner through accessible, inclusive, and impactful education — creating equal opportunities for all, regardless of background or geography.



Our Mission

To deliver quality education through career-driven courses that empower success — equipping learners with the skills, tools, and confidence to thrive in today's job market.

WHY CHOOSE US

Why Choose Skillumni for Smarter Learning?

Participate in Skillumni's comprehensive training program designed to elevate your skill set and equip you with practical tools to effectively solve real-world problems.



Industry-Driven Learning Paths

Curriculum built around what employers actually need — not textbooks.



Lifetime LMS Portal Access

Revisit lessons, access new content, and keep growing at your own pace.



Hands-On Domain Based Projects

Build real projects that showcase your skills to future employers.



Earn 2+ Industry Certifications

Globally recognized certificates to validate your expertise.

Your Learning Journey with Skillumni

1

Enrol

Pick your domain — no prior experience needed.

2

Learn

Access recorded sessions & lifetime LMS portal.

3

Build Projects

Complete 1 minor & 1 major industry project.

4

Get Certified

Earn course & internship completion certificates.

5

Launch Career

Resume help, mock interviews & placement support.

Training Spotlight

- Content developed by experienced industry mentors for real-world application.
- 35+ Hours of Learning, Comprehensive video lessons, exercises, and guided modules.
- Lifetime LMS Access to Revisit all learning materials, updates, and resources—forever.
- Access the program anytime, anywhere through our online platform.
- Build practical skills with real-world project work.
- Certification Showcase your achievement and boost your career profile.
- Regular Assessments to Evaluate your progress and strengthen your understanding.

Curriculum:

Module 1: Intro to Python for Data Science

- Why Python for data science
- Real-world applications
- Installing Python & setting up Jupyter / VS Code

Module 2: Python Syntax Basics

- Variables & data types
- Type conversion
- print() & input() for I/O

Curriculum:

Module 3: Operators in Python

- Arithmetic & relational operators
- Logical & bitwise operators
- Identity & membership (is, in)

Module 4: Control Flow Statements

- if, elif, else
- for & while loops, break/continue
- Iterating lists, strings, dicts, ranges

Curriculum:

Module 5: Functions & Modules

- def, arguments, return values
- Lambda functions
- Built-in modules: math, random & more

Module 6: Data Structures in Python

- Lists: indexing, slicing, methods
- Tuples & sets, set operations
- Dictionaries: get(), update(), keys()

Curriculum:

Module 7: File Handling

- Opening, reading & writing files
- The with statement
- Working with CSV & JSON

Module 8: Exception Handling

- try-except blocks
- finally & else clauses
- Debugging & crash prevention

Curriculum:

Module 09: SQL & Statistics

- SQL queries, joins & aggregations
- Mean, median, variance, std. deviation
- Probability, distributions & hypothesis testing

Module 10 : Data Analysis: Pandas & NumPy

- Pandas DataFrames hands-on
- NumPy arrays & operations
- Cleaning & analyzing real datasets

Curriculum:

Module 11: Machine Learning

- Supervised learning: regression & classification
- Unsupervised learning: clustering
- Model evaluation techniques

Module 12 : Deep Learning

- Artificial Neural Networks (ANN)
- CNNs for image processing
- RNNs for sequence & time-series data

Skills You Get:

- Python Programming Foundations
- Data Wrangling with Pandas & NumPy
- Data Visualization
- SQL & Statistics
- Machine Learning
- Deep Learning & AI

Training Program Outline



Before Training

- No prior experience required
- Beginner friendly — any domain
- Start fresh, choose your specialization



Training

- Recorded sessions + study materials
- Lifetime LMS access
- Flexible, self-paced learning



Industrial Projects

- Complete 1 Minor Project
- Complete 1 Major Project
- Real-world business problems



Certification

- Course Completion Certificate
- Internship Completion Certificate
- Letter of Recommendation (optional)



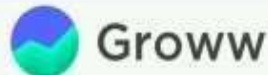
Placement Support

- Resume Building Assistance
- Mock Interview Preparation
- Dedicated Placement Assistance

OUR EXPERTS

Our Mentors Are From:

Learn directly from working professionals at India's top companies — real experience, real insights.



CREDENTIALS

Earn 2+ Industry-Led Certifications

Upon successful completion, receive industry-recognized certificates that validate your skills and boost your career prospects — whether you're aiming for a new job or a promotion.



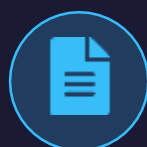
Course Completion Certificate

Awarded upon finishing all course modules and assessments successfully.



Internship Completion Certificate

Issued after completing both the minor and major industry projects.



Letter of Recommendation

Optional — for outstanding performers, signed by Skillumni co-founder.



Outstanding Performance Certificate

Optional — recognises exceptional dedication and achievement.

Accreditations & Recognitions

Skillumni is proudly recognized under key Government of India initiatives — reflecting our compliance, credibility, and commitment to student success.



Startup India (DPIIT)

Dept. for Promotion of Industry &
Internal Trade, Govt. of India



MSME Certified

Ministry of Micro, Small & Medium
Enterprises, Govt. of India



Ministry of Corporate Affairs

Registered Private Limited Company,
Govt. of India

THANKYOU

We'd love to be part of your learning journey.

Need more insights? Our counsellors are here to guide you through every step.

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