STLabsIndia
SOFTWARE TRAINING INSITITUTE

Data Science Training Program

"From Noida's premier software training institute - a course built to launch your tech career."

Ministry of MSME, Govt. of India

About STLabs

STLabs is a reputed technology training institute committed to delivering high-quality, industry-oriented education in software testing and development. With over 10 years of consistent excellence, STLabs has built a strong reputation for its dedication to student success and career growth.

We focus on nurturing our students through practical learning, expert mentorship, and continuous guidance, ensuring they are well-prepared for real-world challenges. Our commitment goes beyond training—we actively support each student in achieving their career goals by providing strong placement assistance, backed by an impressive track record of successful placements.

At STLabs, every effort is made to empower students with the skills, confidence, and opportunities needed to build a successful future.

Job-Oriented Data Science Training Program

with GEN AI



Offered by STLabs India

Industry-Relevant Job Oriented Data Science Courses to Get You Hired!

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Address: Amba Tower C-58, Sector 2, Noida, U.P. **INDIA:** 0120-4850016 || **USA:** +1-(762) 332-9766

STLabsIndia
SOFTWARE TRAINING INSITITUTE

STLABS INDIA 10-years legacy of success

Empowering coders to achieve their dreams

- **20K+ Learners**
  cracked dream roles at top tech companies
- **5k+ Alumni in MNC**
  & more in 103/111 Unicorne
- **Regular Assignments**
  after completing the modules
- **Interview Preparation**
  via our placement cell
- **Expert Mentorship**
  cracked dream roles at top tech companies
- **Flexible Learning**
  via our placement cell
- **Career Guidance**
  cracked dream roles at top tech companies
- **Flexible Learning**
  via our placement cell
- **Career Guidance**
  cracked dream roles at top tech companies
- **Placement Assistance**
  via our placement cell



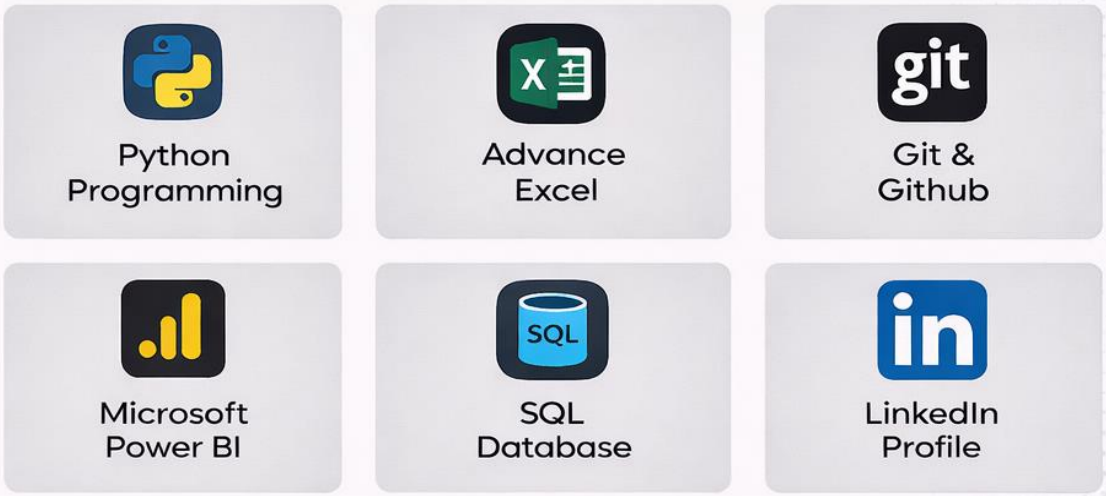
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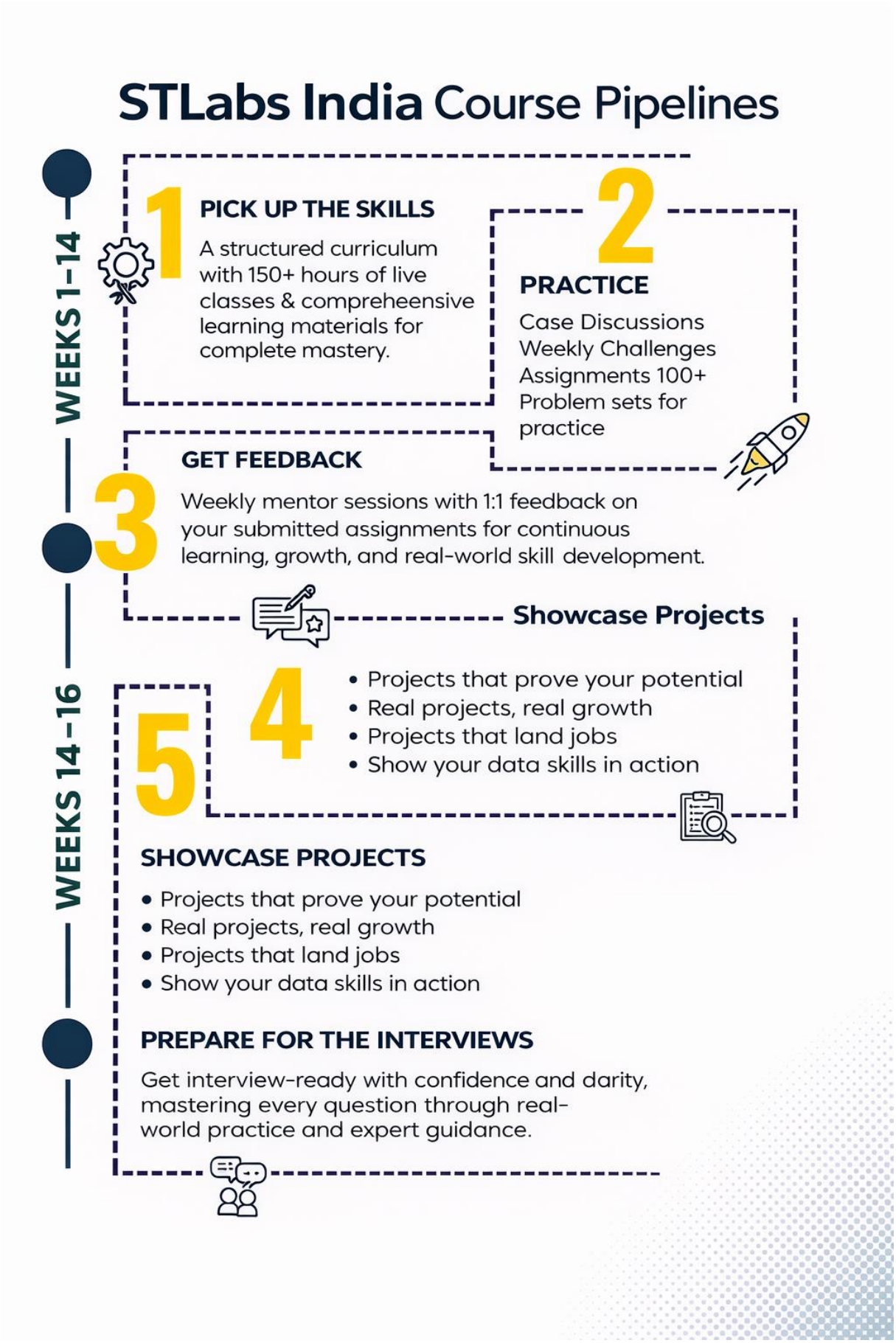
Tools & Technologies

Data Science relies on a powerful ecosystem of tools and technologies that enable professionals to collect, process, analyze, and visualize data efficiently. At the core of this ecosystem is Python, the most widely used programming language for data analysis, machine learning, and automation. Its extensive libraries make it ideal for solving real-world business problems through data-driven insights.

To manage and query data effectively, MySQL plays a crucial role, providing a strong foundation in database management and structured data handling. Visualization tools like Power BI transform raw data into interactive dash-boards and meaningful business insights, helping professionals manake informed decisions quickly and confidently.

Complementing these skills, learners at STLabs India gain hands-on experience with Git for version control, AWS for cloud-based deployment and data storage, and LinkedIn for building a strong professional presence. Together, these tools empower students to become industry-ready data professionals, capable of managing end-to-end data workflows with confidence.




STLabs India Course Pipelines
WEEKS 1–14
1
PICK UP THE SKILLS
A structured curriculum with 150+ hours of live classes & compreheensive learning materials for complete mastery.
2
PRACTICE
Case Discussions
Weekly Challenges
Assignments 100+
Problem sets for practice
3
GET FEEDBACK
Weekly mentor sessions with 1:1 feedback on your submitted assignments for continuous learning, growth, and real-world skill development.
4
Showcase Projects
• Projects that prove your potential
• Real projects, real growth
• Projects that land jobs
• Show your data skills in action
WEEKS 14–16
5
SHOWCASE PROJECTS
• Projects that prove your potential
• Real projects, real growth
• Projects that land jobs
• Show your data skills in action
PREPARE FOR THE INTERVIEWS
Get interview-ready with confidence and darity, mastering every question through real-world practice and expert guidance.

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Course Curriculum

Python Programming	• *Introduction to Python & IDE Setup* • *Data Types, Variables & Operators* • *Conditional Statements & Loops* • *Functions & Modules* • *File Handling & Exception Handling* • *Libraries: NumPy, Pandas, Matplotlib* • *Data Manipulation & Visualization* • *Working with APIs & JSON* • *Mini Projects & Real-world Practice*
Analysis & Data Visualization	• *Introduction to Data Analysis* • *Data Cleaning & Preparation* • *Exploratory Data Analysis (EDA)* • *Handling Missing & Outlier Data* • *Descriptive Statistics & Insights* • *Data Visualization with Matplotlib* • *Interactive Dashboards using Power BI* • *Storytelling with Data* • *Project: Analyze & Present Real Datasets*
Case Studies	• *Analyzing COVID-19 Trends using Python & Pandas* • *Sales Performance Analysis* • *Customer Purchase Behavior Analysis* • *Movie Rating Analysis with Matplotlib & Seaborn* • *Stock Market Data Visualization using Python* • *Employee Attrition Data Analysis* • *Air Quality Index (AQI) Visualization Project* • *E-commerce Data Cleaning & Insights Report* • *HR Analytics*
Mysql Database	• *Introduction to Databases & MySQL* • *Creating & Managing Tables* • *Data Insertion, Update & Deletion*

	• *Filtering & Sorting with WHERE and ORDER BY* • *Joins & Relationships between Tables* • *Aggregate Functions & Grouping Data* • *Subqueries & Nested Queries* • *Data Normalization & Keys* • *Practical SQL Projects & Reporting*
Case Study	• *Sales Data Analysis using SQL Queries* • *Employee Performance Tracking System* • *Customer Purchase Pattern Analysis* • *Banking Transaction Monitoring Project* • *Hospital Patient Record Management* • *E-commerce Order & Inventory Insights* • *University Student Result Management* • *Retail Store Revenue Optimization* • *Real-time Data Reporting Dashboard with SQL*
GitHub	• *Introduction to Git & GitHub* • *Setting Up Repositories* • *Cloning & Managing Projects* • *Commit, Push & Pull Operations* • *Branching & Merging Techniques* • *Resolving Merge Conflicts* • *Collaborating with Teams on GitHub* • *Using GitHub for Project Version Control* • *Hosting & Showcasing Data Science Projects*
Statistics for Data Science	• *Introduction to Statistics & Data Types* • *Descriptive Statistics: Mean, Median, Mode* • *Probability & Probability Distributions* • *Sampling Methods & Data Collection* • *Hypothesis Testing & P-values* • *Correlation & Regression Analysis* • *Variance, Standard Deviation & Outliers* • *Inferential Statistics & Confidence Intervals* • *Applying Statistics using Python*

Probability and Distribution	• *Basics of Probability Theory* • *Conditional Probability & Bayes' Theorem* • *Random Variables & Events* • *Discrete vs Continuous Distributions* • *Uniform, Binomial & Poisson Distributions* • *Normal & Exponential Distributions* • *Probability Density & Mass Functions* • *Central Limit Theorem Concept* • *Real-life Applications using Python*
Distributions	• *Introduction to Data Distributions* • *Types of Distributions in Statistics* • *Normal (Gaussian) Distribution* • *Binomial & Poisson Distributions* • *Uniform & Exponential Distributions* • *Skewness & Kurtosis Analysis* • *Visualizing Distributions with Python* • *Fitting Data to Distributions* • *Practical Applications in Data Science*
Machine Learning	• *Introduction to Machine Learning Concepts* • *Supervised & Unsupervised Learning with intuition* • *Regression & Classification Techniques* • *Decision Trees & Random Forest Models* • *Clustering using K-Means Algorithm* • *Model Evaluation & Performance Metrics* • *Feature Selection & Engineering* • *Overfitting, Underfitting & Regularization* • *End-to-End Machine Learning Project*
Supervised Machine Learning	• *Understanding Supervised Learning Workflow* • *Business Problem Framing & Data Collection* • *Data Cleaning, Preparation & Feature Engineering* • *Model Selection: Regression & Classification* • *Hyperparameter Tuning & Cross-Validation* • *Model Evaluation using Industry Metrics* • *Deployment of ML Models in Real Environments*

	• *Monitoring Model Performance over Time* • *Industrial Case Study: Predictive Analytics Project*
Unsupervised Machine Learning	• *Introduction to Unsupervised Learning Concepts* • *Understanding Clustering & Association Techniques* • *K-Means & Hierarchical Clustering Algorithms* • *Dimensionality Reduction using PCA* • *Data Preprocessing & Feature Scaling* • *Interpreting Cluster Outputs & Insights* • *Anomaly Detection & Pattern Recognition* • *Real-world Applications in Market Segmentation* • *Industry Project: Customer Segmentation Analysis*
Natural Language Processing	• *Introduction to NLP & Text Processing* • *Tokenization, Stopword Removal & Stemming* • *Text Cleaning & Preprocessing Techniques* • *Bag of Words & TF-IDF Representations* • *Sentiment Analysis using Python* • *Named Entity Recognition (NER)* • *Text Classification with Machine Learning* • *Word Embeddings & Language Models* • *Real-world Project: Social Media Sentiment Analysis.*
Model Deployment	• *Introduction to Model Deployment Concepts* • *Preparing Trained Models for Production* • *Creating Web APIs using Flask or FastAPI* • *Frontend Integration with Vercel* • *Hosting Machine Learning Apps on Vercel* • *Setting up AWS EC2 Instances for Deployment* • *Deploying Scalable ML Models on EC2* • *Managing Versions & Environment Variables* • *Real-world Project: End-to-End Model Deployment*
Resume Building	• *Learn how Applicant Tracking Systems (ATS) work and filter resumes.* • *Craft a professional, keyword-optimized resume for higher visibility.* • *Highlight skills, achievements, and certifications effectively.* • *Structure content for clarity, readability, and impact.*

	• *Use industry-relevant keywords to align with job descriptions.* • *Design ATS-friendly formatting without losing visual appeal.* • *Get guidance on tailoring resumes for specific roles and domains.* • *Build a strong, interview-winning resume that stands out to recruiters.*
LinkedIn Refinement	• *Optimize your LinkedIn profile to enhance professional visibility.* • *Craft a compelling headline and summary that reflect your expertise.* • *Showcase key skills, certifications, and achievements effectively.* • *Learn to use keywords for better search and recruiter reach.* • *Build a strong personal brand with engaging content and activity.* • *Gain strategies to grow your professional network organically.* • *Understand how to leverage LinkedIn for job and career opportunities.* • *Present a polished, professional profile that attracts top employers.*

Interview Preparation

Our dedicated placement teams have a decade-plus of experience transitioning students from classroom to workplace. Here's how it goes:



Resume Preparation Session

Our mentors will guide you through preparing your personalized resumes connecting your talents, skills, previous experience, etc.



LinkedIn Profile Refinement

Linkedin is the platform where you get the tickets to your dream job, and we help you optimize your profile there in the finest way so you bag the best salary in the market.



Interview Preparatory Sessions

We provide intensive interview preparation right from Day 1 to prepare candidates for interviews with our network of 2000+ hiring partners.



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Mock Interviews

A panel of industry experts will conduct a SWOT analysis and present you with the feedback and ratings of how you performed in the interview and the areas you need to improve.

Hands on Experience



Why STLabs India?



Top-Notch Faculty Our faculty is our strength. We have certified data analytics trainers, with over 12 years of experience, who have a strong passion for training. The trainers are always at your disposal to assist you throughout the learning process.



Industry-Based Course Curriculum Considering the unmet skill gaps in industry, our course modules are aligned to the latest technological trends, and cover all the essential topics and tools.



Dedicated Post-Training Support. Learners gain hands-on experience when they start on their assignments and case studies. We provide dedicated mentors to help with any queries during this phase.



Job Assistance Program Our data science training doesn't stop with theory and practice. We also take responsibility for making you job-ready. Our placement support is included with the course.

Google ★★★★★

Job Star Reviews on Google Our data science training doesn't stop with theory and practice. We also take responsibility for making you job-ready. Our placement support is included with the course.

5/5 Star Reviews on Google We have had many happy learners over the years, and our ratings reflect our ethos of striving to always provide a high-quality learning experience.

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Top Hiring Companies

Synechron, EXL, DXC TECHNOLOGY, Optum, BDO, amazon, CAM COM, vmware, WNS, VNG, paloalto, CARS 24, Deloitte., salesforce, accenture, wipro

Career Progression and Salary Trends

