



TECHNOLOGY INTERNSHIP TRAINING PROGRAM IN **DATA SCIENCE**

4-6 Months Online Program
Comprehensive Modules on
AI, Gen AI, Agentic AI & Vibe Coding



Real-Time Project Experience

WORK ON LIVE PROJECTS TO BUILD A
PRACTICAL PORTFOLIO.



Industry-Aligned Curriculum

STAY UPDATED WITH IN-DEMAND SKILLS
EMPLOYERS NEED.



Placement-Oriented Training

STRUCTURED SUPPORT TO SECURE
INTERNSHIP & JOB OPPORTUNITIES.



UNLOCKING THE FUTURE WITH A GAME CHANGER: DATA SCIENCE



\$ 322.9 Billion

Forecasted revenue from the global
Data Science market by 2026

Source: MarketsandMarkets



35%

Growth in employment for
Data Scientists from 2022 to 2032

Source: USBLs



23 LPA

Average salary for Data Scientists

Source: Glassdoor



\$119 Billion

Predicted size of the Indian

Source: AIM Research

STEP INTO A WORLD OF OPPORTUNITIES WITH OUR TECHNOLOGY INTERNSHIP TRAINING PROGRAM

WHY THIS PROGRAM STANDS OUT

Did you know that every day, businesses generate massive amounts of data but struggle to find skilled professionals who can translate it into actionable insights? This data explosion is creating immense opportunities for those ready to harness it for meaningful impact.

With data now driving innovation and decision-making across industries, the need for professionals who can analyze, interpret, and act on data is at an all-time high. This is why our Data Science Internship Training Program was crafted.

In just a structured, intensive training period, you will gain end-to-end exposure to data science tools, real-world project experience, and practical problem-solving approaches. Guided by industry experts, you will develop a data-driven mindset and build the skills needed to launch and advance your career confidently in this growing field.

1 YEAR OF ENABLING FUTURE TECH LEADERS

HIGHLIGHTS OF OUR TECHNOLOGY INTERNSHIP TRAINING PROGRAM



**95% Placement
Support Success Rate**

Learners secure internships and job offers across top tech startups and companies.



**4.7 / 5 Average
Learner Rating**

Reflecting high satisfaction with live sessions and mentor guidance.



**3000+ Learners
Trained**

Building careers in Full Stack, Data Science, Cloud, and emerging technologies.

PROGRAM OVERVIEW

- 
-  4-6 Months | Online
 -  Personalized Weekend Mentorship Sessions
 -  Hands-On Exposure to 22+ Languages and Tools (Python, SQL, Tableau and More)
 -  18 Weekly Online Mentorship Sessions
 -  Case Studies with Real-World Datasets: 10 hands-on projects and 60+ case studies
 -  Industry Mentor-guided Capstone Project
 -  Dedicated Program Manager
 -  Academic Learning Support (Industry Mentor, GL Coach, GL Community, Project Discussion Forums, Peer Groups)
 -  Certificate of Completion from MasterPath
 -  World-renowned Faculty and Seasoned Industry Experts
 -  Dedicated Learning and Career Support
 -  Resume Review and Interview Preparation Sessions

IS THIS THE RIGHT FIT FOR YOU?

THIS PROGRAM IS BEST SUITED FOR



Students and recent graduates who want to build a strong foundation in technology and data skills for future-ready careers.



Working professionals seeking a career shift into Data Science, Analytics, or Tech roles with practical, hands-on exposure.



Tech enthusiasts looking to upskill with in-demand tools like Python, Power BI, SQL, and Machine Learning for real-world problem-solving.



Managers and team leads who wish to use data effectively for better decision-making and strategic planning in their organizations.



Entrepreneurs and business owners who want to leverage data and technology to drive growth and gain a competitive edge.



KEY LEARNING OUTCOMES

- 1 Gain a strong foundation in programming with Python and essential data handling skills for real-world projects.
- 2 Learn to clean, visualize, and interpret data to discover actionable business insights across industries.
- 3 Develop problem-solving skills using Data Analytics, Business Intelligence tools, and Machine Learning techniques.
- 4 Acquire the ability to build interactive dashboards and reports using Power BI and Tableau for data storytelling.
- 5 Understand how to work with databases using SQL to query, manage, and analyze structured data effectively.
- 6 Gain hands-on exposure to Machine Learning model building for predictive analytics and business forecasting.
- 7 Build a job-ready portfolio of projects that showcase your practical skills to potential employers in the tech industry.

REWARDING JOB ROLES YOU CAN LAND

DATA ANALYST

DATA ENGINEERS

DATABASE ADMINISTRATOR

MACHINE LEARNING ENGINEER

DATA SCIENTIST

DATA ARCHITECT

STATISTICIAN

BUSINESS ANALYST

DATA AND ANALYTICS MANAGER

AGENTIC AI SPECIALIST

PROMPT ENGINEER

GENERATIVE AI APP DEVELOPER

AGENTIC AI AND VIBE CODE CENTRIC CURRICULUM

The curriculum, curated by industry experts and leading practitioners, is designed to build practical, job-ready skills in Data Science and Technology. It bridges the gap between theoretical understanding and real-world application, empowering learners to confidently launch or transition into a data-driven career.

COURSE 01

DATA ANALYTICS & VISUALIZATION

This course will teach you how to collect, clean, analyze, and visualize data to uncover patterns, generate insights, and support business decision-making using industry-standard tools.

Data Analytics Foundations

- Understanding Data Types and Sources
- Data Collection Techniques
- Data Cleaning and Preprocessing
- Exploratory Data Analysis Techniques

SQL for Data Analytics

- Writing Basic and Advanced SQL Queries
- Filtering, Sorting, and Aggregating Data
- Using Joins, Subqueries, and Window Functions
- Creating and Managing Databases

Data Visualization with Power BI & Tableau

- Introduction to Data Visualization Principles
- Building Interactive Dashboards
- Visual Storytelling with Charts and Graphs
- Sharing and Publishing Reports for Stakeholders

Practical Applications

- Analyzing Real-World Business Data
- Generating Business Insights from Data
- Visualizing Key Metrics for Decision Making
- Building a Mini Project for Portfolio Showcase

COURSE 02

MACHINE LEARNING FUNDAMENTALS

This course teaches you how to apply Machine Learning techniques using Python to build predictive models, analyze complex data patterns, and support data-driven decision-making across industries. You will learn to prepare data, train models, and evaluate their performance for real-world business use cases.

Machine Learning Foundations

- Introduction to Machine Learning and Its Applications
- Supervised vs Unsupervised Learning
- Understanding Features and Labels
- Data Preprocessing Techniques
- Handling Imbalanced Data

Supervised Learning Algorithms

- Linear and Logistic Regression
- Decision Trees and Random Forests
- K-Nearest Neighbors (KNN)
- Support Vector Machines (SVM)
- Model Evaluation Metrics (Accuracy, Precision, Recall, F1 Score)

Unsupervised Learning Techniques

- Introduction to Clustering
- K-Means Clustering
- Hierarchical Clustering
- Principal Component Analysis (PCA) for Dimensionality Reduction

Model Deployment Basics

- Saving and Loading Models
- Introduction to Model Deployment Concepts
- Using Python Libraries for Model Serving

COURSE 03

MACHINE LEARNING - 2

In this course, you will expand your machine learning skills by learning advanced algorithms, understanding their business applications, and applying them to solve real-world problems.

Clustering and Unsupervised Learning

- Introduction to Clustering Techniques
- K-Means Clustering: Concepts and Implementation
- Hierarchical Clustering
- Evaluating Clustering Performance

Model Optimization and Validation

- Cross-Validation Techniques
- Hyperparameter Tuning
- Avoiding Overfitting and Underfitting
- Model Selection for Business Use Cases

Project Application

- Applying Machine Learning to Business Scenarios
- Building a Mini Project for Your Portfolio
- Presenting Model Results for Stakeholder Review

COURSE 04

DATA ENGINEERING FUNDAMENTALS

In this course, you will learn how to handle, manage, and process large datasets efficiently, preparing them for advanced analytics and machine learning workflows using modern data engineering tools and practices.

Data Handling and Processing

- Introduction to Data Engineering
- Data Collection and Integration Methods
- ETL (Extract, Transform, Load) Processes
- Handling Structured and Unstructured Data

Big Data Tools and Ecosystems

- Introduction to Big Data Concepts
- Basics of Apache Hadoop and Spark
- Working with DataFrames in PySpark
- Distributed Data Processing Concepts

Data Storage and Management

- Introduction to Databases for Data Engineering
- SQL vs NoSQL Databases
- Data Warehousing Concepts
- Data Pipeline Design Principles

COURSE 05

CAPSTONE PROJECT & PORTFOLIO BUILDING

This final course helps you consolidate your skills by working on an industry-aligned capstone project, creating a portfolio that demonstrates your practical capabilities to employers.

Project Planning and Execution

- Identifying a Business Problem for Your Project
- Data Collection and Preparation for the Project
- Building and Evaluating Analytical or ML Models
- Visualizing and Communicating Results

Portfolio and Presentation Skills

- Structuring Your Capstone Project for Your Portfolio
- Writing a Clear and Insightful Project Report
- Building a Shareable e-Portfolio
- Presenting Insights to Non-Technical Stakeholders

Career Readiness

- Resume Enhancement with Project Highlights
- Interview Preparation for Data and Tech Roles
- Articulating Project Outcomes in Interviews
- Building a Personal Brand on LinkedIn

COURSE 06

INTRODUCTION TO GENERATIVE AI

In this course, you will get an overview of Generative AI, understand the difference between generative and discriminative AI, design, implement, and evaluate tailored prompts for specific tasks to achieve desired outcomes, and integrate open-source LLMs and prompt engineering to solve business problems using Generative AI.

Introduction to Generative AI

- Supervised vs Unsupervised Machine Learning
- Generative AI vs Discriminative AI
- Brief Timeline of Generative AI
- Overview of Generative Models
- Generative AI Business Applications

Introduction to Prompt Engineering

- Introduction to Prompts
- The Need for Prompt Engineering
- Different Types of Prompts (Conditional, Few-Shot, Chain-of-Thought, Returning Structured Output)
- Limitations of Prompt Engineering

COURSE 07

INTRODUCTION TO SQL

This course will help you gain an understanding of the core concepts of databases and SQL, gain practical experience writing simple SQL queries to filter, manipulate, and retrieve data from relational databases, and utilize complex SQL queries with joins, window functions, and subqueries for data extraction and manipulation to solve real-world data problems and extract actionable business insights.

Querying Data with SQL

- Introduction to Databases and SQL
- Fetching Data
- Filtering Data
- Aggregating Data

Advanced Querying

- In-built Functions (Numeric, Datetime, Strings)
- Joins
- Window Functions

Enhancing Query Proficiency

- Subqueries
- Order of Query Execution



COURSE 8

ARTIFICIAL INTELLIGENCE

NEURAL NETWORKS AND COMPUTER VISION

This course helps you implement neural networks to synthesize knowledge from data, introduce you to the world of computer vision, demonstrate an understanding of image processing and different methods to extract informative features from images, build convolutional neural networks (CNNs) to unearth hidden patterns in image data, and leverage common CNN architectures to solve image classification problems.

Introduction to Neural Networks

- Deep Learning and History
- Multi-layer Perceptron
- Types of Activation Functions
- Training a Neural Network
- Backpropagation

Image Processing

- Overview of Computer Vision
- Color Pixel and Image Representation
- Edge Detection
- Kernels
- Padding
- Strides and Pooling
- Flattening to a 1D Array

Convolutional Neural Networks

- ANN vs CNN
- CNN Architecture
- Introduction to Transfer Learning
- Common CNN Architectures



NATURAL LANGUAGE PROCESSING WITH GENERATIVE AI

This course will help you get introduced to the world of natural language processing, gain a practical understanding of text embedding methods, gain a practical understanding of the working of different transformer architectures that lie at the core of large language models (LLMs), explore how retrieval augmented generation (RAG) integrates information retrieval to improve the accuracy and relevance of responses from an LLM, and design and implement robust NLP solutions using open-source LLMs combined with prompt engineering techniques.

Introduction to Natural Language Processing

- Overview of NLP
- History of NLP
- Different Applications of NLP
- Text Cleaning
- Text Vectorization
- Sentiment Analysis

Word Embeddings

- Introduction to Word Embeddings
- Word2Vec
- CBOW and Skip-gram
- Negative Sampling
- GloVe
- Applications of Word Embeddings

Attention Mechanism and Transformers

- Introduction to Transformers
- Components of a Transformer
- Different Transformer Architectures
- Applications of Transformers

Large Language Models and Retrieval Augmented Generation

- Introduction to LLMs
- Working of LLMs
- Applications of LLMs
- Introduction to Embeddings and Tokenization
- Byte-Pair Encoding (BPE) Tokenization
- Computation and Application of Sentence Embeddings
- Retrieval-Augmented Generation (RAG)

AGENTIC AI AND VIBE CODE CENTRIC CURRICULUM



MODULE-1

Introduction to Vibe Coding

- What is Vibe Coding?
- Tools of the trade: Cursor, Copilot, GPT Assistants
- Collaborating live with LLMs
- Writing, debugging, and documenting using AI



MODULE-2

Foundations of Generative AI

- Types: Text, Image, Audio, Code, Multimodal
- Architecture deep-dive: Transformers, Diffusion
- Demos: ChatGPT, DALL·E, Sora, Suno, etc.
- Real-world use cases and ethics



MODULE-3

Prompt Engineering

- Prompt types: zero-shot, few-shot, chain-of-thought
- Prompt tuning vs. fine-tuning
- Building reusable prompt libraries-
- Tools: PromptLayer, FlowGPT, LangChain Prompt Template



MODULE-4

AI Agents & Tool Use

- What are AI agents? ReAct, Plan-and-Execute
- Tool calling, memory, and long-term planning
- Building agents using LangChain, CrewAI
- Practical: Build a support bot, code refactorer, or research assistant



SAMPLE PROJECTS / ARCHITECTURE

- Auto Debugger Agent: GPT + Code sandbox + cursor integration
- Content Generator App: Streamlit + OpenAI API + moderation
- Autonomous Research Bot: LangChain + web search + summarizer
- Vibe Pair Coder: GPT copilots integrated with a live coding interface

TOOL SUMMARY

- Dev: Cursor, Replit, VS Code
- LLM APIs: OpenAI, Claude, Gemini
- Agents: LangChain, CrewAI, AutoGen
- Prompting: PromptLayer, FlowGPT- Monitoring: LangSmith, OpenAI logs
- Deployment: Hugging Face Spaces, Vercel, Streamlit

JOB ROLES & CAREER PATHS

Roles	Packages
AI Coding Assistant	Entry-Level: ₹6-10 LPA
Prompt Engineer	Junior: ₹10-14 LPA
GenAI App Developer	Mid: ₹14-22 LPA
AI Agent Architect	Senior: ₹22-40+ LPA

CAPSTONE PROJECT

This course will help you identify and define a real-world problem considering factors such as data availability, feasibility, and potential impact, design and develop a Data Science solution that addresses the identified problem, explore, analyze, and process the data, apply and evaluate appropriate Data Science techniques to implement the solution effectively and communicate insights and implications to stakeholders.

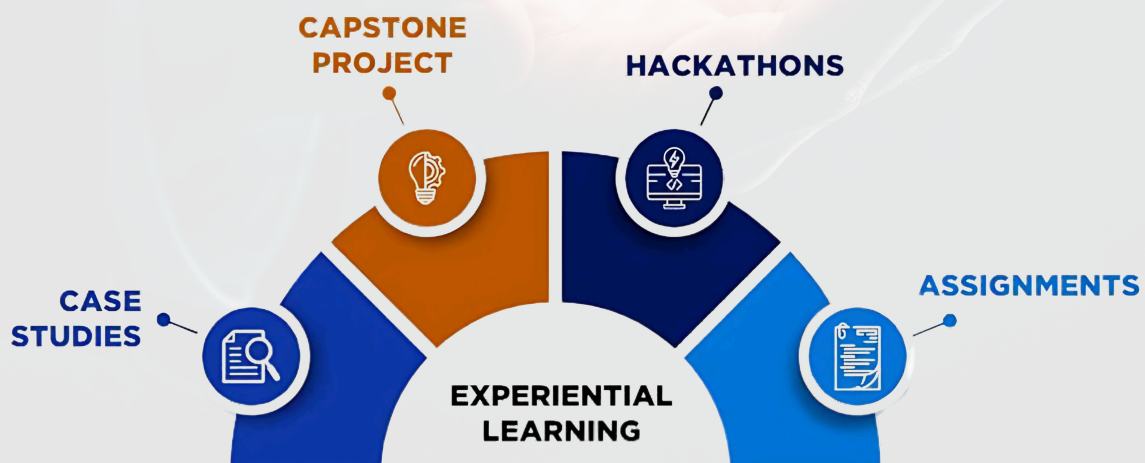


TOOLS AND MORE

This course will help you Identify and define a real-world problem considering factors such as data availability, feasibility, and potential impact, design and develop a Data Science solution that addresses the identified problem, explore, analyze, and process the data, apply and evaluate appropriate Data Science techniques to implement the solution effectively and communicate insights and implications to stakeholders.

LEARN 25+ IN-DEMAND LANGUAGES AND TOOLS

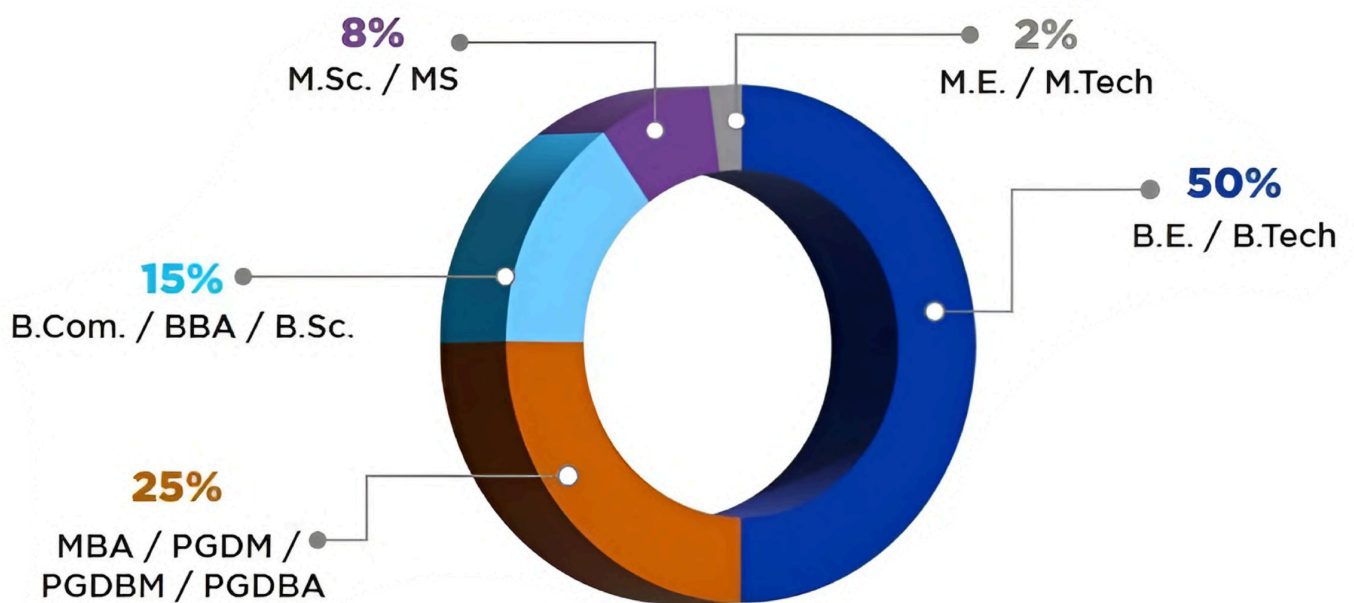
 python™	 pandas	 NumPy	 seaborn
 matplotlib	 statsmodels	 SciPy	 scikit learn
 Hugging Face	TRANSFORMERS	 LangChain	 ChatGPT
 TensorFlow	 Keras	 OpenCV	 R
 spaCy	 gradio	 + a b e a u	 SQL
 Open for Innovation KNIME	NLTK	 Excel	CLAUDE CODE
 Visual Studio Code	 PC	 CURSOR	AND MORE...





MEET THE COHORT

EDUCATIONAL BACKGROUND



GET ACCESS TO DEDICATED CAREER SUPPORT

E-PORTFOLIO



Build a snapshot of all the projects you work on and skills you acquired during the program. This will help showcase your expertise to potential recruiters.

RESUME BUILDING AND INTERVIEW PREPARATION



Highlight your skills and previous experience in a tailored resume. Learn how to crack interviews with comprehensive preparation sessions.

CAREER GUIDANCE



Get access to mentorship from industry experts and benefit from their guidance.

JOB BOARD



Access an exclusive job board with opportunities shared by 3500+ organizations. Gain an average salary hike of 50% like many of our learners.

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