

DATA SCIENCE & AI JOB GUARANTEE PROGRAM

From Python *to AI* *agents.*

Ten modules from your very first line of code. Six core modules make you placement-ready; then Modern AI and the AI Engineer Stack, on the tools AI teams use today.

10

modules

110+

tools you'll use

Up to 25

capstones, by plan

Up to 47

projects

**Learn, get hired, *then pay.***

Not placed after completing the program? You pay ₹0.

skillcept.online

Six modules to placement-ready.

Four more to stand out.

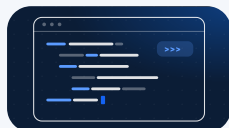
The core comes first, on every plan: about 6 months to placement-ready on Go and Plus at about 10 hours a week, 9 to 10 months on Infinity's live weekends. Complete the program and your interviews can start, while Modern AI and the AI Engineer Stack carry on.

IN THIS SYLLABUS		MODULE	GO PLUS INFINITY		
Your path	02	 Python from zero	✓	✓	✓
The 6 core modules	03	 Probability & statistics for data science	✓	✓	✓
The capstone library	06	 Data analysis & visualisation	✓	✓	✓
Modules 7 to 10	08	 SQL for data analysis	✓	✓	✓
The tools	12	 Machine learning	✓	✓	✓
Certificates	14	 Deep learning	✓	✓	✓
How you learn	15	THE COMPETENCY TEST			
		 Modern AI	✓	✓	✓
		 GenAI & LLMs	–	✓	✓
		 Production RAG & LLMOps	–	–	✓
		 Agentic AI	–	–	✓

Completing the program means the 6 core modules, 5 capstones in 15 days, passing the competency test and signing the agreement within 30 days (on Infinity, also 75% of your batch's live classes for the core modules). It unlocks your interviews, the refund of your registration with its GST, and the ₹0 promise if you're not placed.

The 6 core *modules*.

From your first line of code to deep learning. Completing them, with 5 capstones in 15 days, the competency test and signing within 30 days (on Infinity, also 75% live-class attendance), completes the program.



MODULE 1

Python from zero

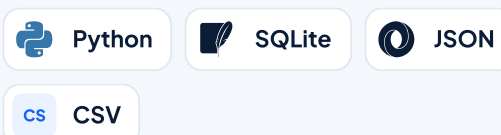
About 51 hours · every plan

Starts at your very first line of code and builds the logic every later module uses, with practice after every lesson.

YOU'LL LEARN

- Variables, numbers and strings
- Lists, tuples, dictionaries and sets
- Loops, conditions and functions
- Modules, dates and times
- Reading and writing files, CSV and JSON
- Errors and exceptions
- Object-oriented programming
- Generators and lambdas
- Databases from Python with SQLite

TOOLS



MODULE 2

Probability & statistics for data science

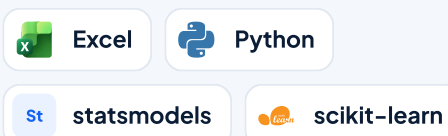
About 10 hours · every plan

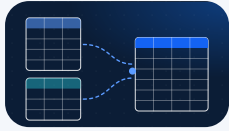
The maths behind every model, taught through examples, then put to work in Python.

YOU'LL LEARN

- Probability, combinatorics and Bayes' theorem
- Distributions
- Descriptive statistics
- Confidence intervals
- Hypothesis testing
- Linear and logistic regression in Python

TOOLS





MODULE 3

Data analysis & visualisation

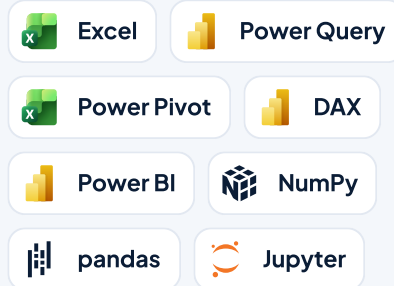
About 30 hours · every plan

The analyst's toolkit: Excel and Power BI the way companies use them, and pandas for data in Python.

YOU'LL LEARN

- Advanced PivotTables, slicers and Excel dashboards
- Power Query to clean and combine data
- Data models and DAX measures
- Power BI reports: modelling, visuals and design
- NumPy and pandas
- Cleaning and preparing data
- Text data and files
- Collecting data from web APIs

TOOLS



MODULE 4

SQL for data analysis

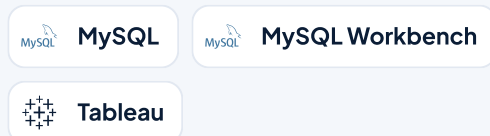
About 11 hours · every plan

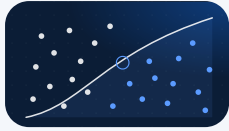
SQL from zero on a real company database, up to the queries analyst interviews test.

YOU'LL LEARN

- Relational databases and SQL basics
- Selecting, filtering and sorting
- Aggregate functions
- Joins, subqueries and self joins
- Views, stored procedures and functions
- Triggers, indexes and variables
- Window functions, CTEs and temporary tables
- From SQL to Tableau dashboards

TOOLS





MODULE 5

Machine learning

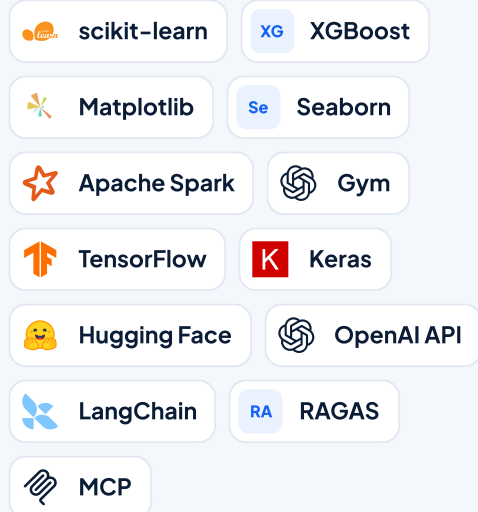
About 19 hours · every plan

The models data scientists use every day, how to test them honestly, and a first look at generative AI.

YOU'LL LEARN

- Regression and predictive models
- Naive Bayes, decision trees, random forests and XGBoost
- SVM, KNN, k-means and PCA
- Recommender systems
- Reinforcement learning
- Cross-validation, precision, recall and ROC
- Messy data, outliers and unbalanced classes (SMOTE)
- Machine learning on big data with Apache Spark
- A/B testing
- Transformers, the OpenAI API, RAG and agents

TOOLS



MODULE 6

Deep learning

About 65 hours · every plan

How neural networks really learn, built by hand in PyTorch, up to the attention mechanism inside every LLM.

YOU'LL LEARN

- Gradient descent and how networks learn
- Building networks in PyTorch
- Overfitting, regularisation and dropout
- Optimisers, losses and weight initialisation
- Autoencoders
- CNNs for images, and transfer learning
- RNN, LSTM and GRU for sequences
- GANs
- Tokens, embeddings and attention
- GPT-2, built step by step

TOOLS



Up to 25 capstones.

Real problems, real brands.

After Module 6 you finish 5 capstones in 15 days, all five on Go, any five of ten on Plus, any five of all 25 on Infinity. Build the rest of your library whenever you like, for your portfolio.



A cheat sheet with every capstone. The whole process, step by step, so you always know the next move.

On every plan 5 capstones: submit all five

 Every plan Festive-sale dashboard Sales, categories and returns across a big sale, in one Power BI report  Power BI  MySQL	 Every plan Restaurant ratings across cities What makes a restaurant rate well, city by city and cuisine by cuisine  Excel  Power BI	 Every plan Delivery-time analysis Where and when deliveries run late, and why  MySQL  pandas
 Every plan UPI payments analytics Who pays whom, when and how much, in SQL and a live dashboard  MySQL  Power BI	 Every plan Stock portfolio tracker Returns, risk and sector mix for a portfolio of NSE stocks  Python  Excel	

Plus adds 5 more 10 on Plus: submit any 5

 Plus · Infinity Ride-demand forecast Predict demand by zone and hour, so drivers are where riders will be  pandas  scikit-learn	 Plus · Infinity Customer churn prediction Find who is about to leave, and the offer that keeps them  scikit-learn  XGBoost	 Plus · Infinity UPI fraud detection Catch the rare fraudulent payment among millions of good ones  XGBoost  pandas
 Plus · Infinity Fashion recommendations "You might also like", built the way shopping apps build it  pandas  scikit-learn	 Plus · Infinity Inflation forecast Forecast India's consumer price inflation, month by month  statsmodels  Python	

Infinity adds 15 more All 25 on Infinity: submit any 5

Infinity

Review sentiment in Hindi and English

Read thousands of beauty reviews and tell what customers feel

 Hugging Face  PyTorch

Infinity

Product-search ranker

Rank the right products for what a shopper typed

 PyTorch  Hugging Face

Infinity

Customer-support assistant

Answers plan and recharge questions from the help pages, with sources

 LangChain  LlamaIndex

Infinity

Product image tagger

Tag catalogue photos automatically with transfer learning

 PyTorch  Google Colab

Infinity

Stock price forecasting

Forecast prices with deep learning, and test it honestly

 PyTorch  pandas

Infinity

Surge-price prediction

Predict when and where prices surge

 XGBoost  scikit-learn

Infinity

Music recommendations

The next song a listener will love, from what they play

 PyTorch  pandas

Infinity

Invoice reader

Read invoices and bills into clean data with document AI

 PaddleOCR  OpenAI API

Infinity

Payment-failure prediction

Spot the payments likely to fail before they do

 XGBoost  MLflow

Infinity

Crop price forecast

Mandi prices for farmers, forecast market by market

 statsmodels  Streamlit

Infinity

Movie recommender and box-office model

What to watch next, and what a film will earn

 scikit-learn  pandas

Infinity

Speech to text in Indian languages

Turn Hindi, Tamil and Bengali speech into text

 Whisper  Hugging Face

Infinity

AI resume screener

Match resumes to a job description with an LLM, and explain why

 LangChain  OpenAI API

Infinity

Hotel price prediction

What a room should cost, by city, season and rating

 XGBoost  scikit-learn

Infinity

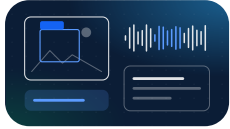
“Talk to your data” agent

Ask a sales database in plain English, get the query and the chart

 LangGraph  MCP

Modules 7 to 10, *week by week.*

They come after the test, so your interviews can start sooner. Modern AI is on every plan; then 40 hours of the AI Engineer Stack, from prompts to AI agents: Module 8 on Plus, all three on Infinity.



MODULE 7

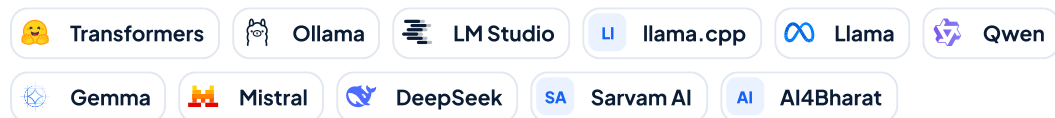
Modern AI

About 12 hours · every plan

WEEK 1

Open models and Hugging Face

The Hugging Face Hub, pipelines, model cards and licences; running open models on your own laptop; choosing a model; AI for Indian languages.



◆ Project: customer-intent detection in English, Hindi and Tamil, on Amazon's MASSIVE data

WEEK 2

Vision, speech and documents

Object detection and segmentation, document AI, speech to text and back, models that read images, image generation and its rules.



◆ Project: a receipt and report reader, on IBM's DocLayNet and NAVER Clova's receipts; speech to text in Indian languages, on Google's FLEURS

WEEK 3

AI at work

AI coding assistants and checking what they write, AI inside Excel and Power BI, no-code AI automation, responsible AI and India's DPDP Act.



◆ Project: a daily air-quality report for Indian cities, on the Central Pollution Control Board's data



MODULE 8

GenAI & LLMs

About 14 hours · Plus · Infinity

WEEK 1

The LLM landscape and its APIs

Closed and open models, reasoning models, tokens and cost; one interface to many models; structured output, tool calling, streaming.



Anthropic Claude



Google Gemini



LiteLLM



OpenRouter



Pydantic



Instructor

- ◆ Lab: one task, five models, on PolyAI's Banking77 banking queries

WEEK 2

Prompt and context engineering, measured

System prompts, few-shot and reasoning; optimising prompts automatically; evaluation sets and LLM-as-judge; prompt injection and guardrails.



DSPy



promptfoo



DeepEval



Guardrails AI



Llama Guard

- ◆ Lab: a prompt test suite for complaint triage, on the US Consumer Financial Protection Bureau's complaints

WEEK 3

Embeddings and RAG

Embedding models, chunking, vector stores and retrieval with citations.



FAISS



Chroma



pgvector



Qdrant



Pinecone



LlamaIndex

- ◆ Lab: a tax-help assistant, on the Income Tax Department's Acts, circulars and FAQs

WEEK 4

Shipping GenAI apps, and first agents

Front ends and an API back end, questions to SQL, a first agent that uses MCP servers, agents on Azure.



Streamlit



Gradio



Chainlit



FastAPI



OpenAI Agents SDK



Claude Agent SDK



Azure AI Foundry

- ◆ The GenAI project: an annual-report analyst, on Infosys, Wipro, HDFC Bank and ICICI Bank's filings with the US SEC



MODULE 9

Production RAG & LLMOps

About 13 hours · Infinity

WEEK 1

Advanced RAG

Parsing PDFs, tables and scans; hybrid search, re-ranking and query rewriting; knowledge graphs; RAG over images.



◆ Lab: a regulation assistant, on the EU AI Act and GDPR

WEEK 2

Evaluation and fine-tuning

RAG metrics and golden sets; prompting, RAG or fine-tuning; LoRA, QLoRA and DPO on small open models.

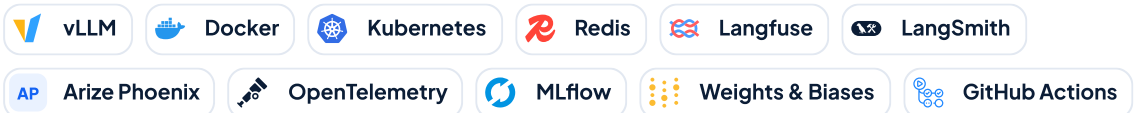


◆ Lab: fine-tune a small model to triage the Consumer Financial Protection Bureau's complaints

WEEK 3

Serving and LLMOps

Serving open models, containers and GPUs; caching, rate limits and budgets; tracing and monitoring; the model registry; CI/CD.

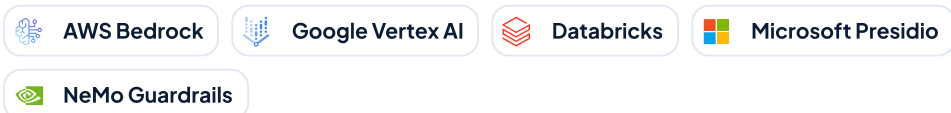


◆ Lab: ship the RAG service with tracing and an automatic test run

WEEK 4

Cloud, security and governance

Deploy on one cloud and compare the others; the OWASP Top 10 for LLM apps; removing personal data; guardrails and governance.



◆ Project 1: a development-research assistant, on the World Bank's reports and indicators



MODULE 10

Agentic AI

About 13 hours · Infinity

WEEK 1

Agents from first principles, and MCP

The agent loop, tools, planning and memory; an agent from scratch; your own MCP server; agents talking to agents.



MCP SDK



A2A



Mem0

◆ Lab: your own MCP server for Microsoft's AdventureWorks sales database

WEEK 2

Multi-agent frameworks

State and graphs, human approval, hand-offs and recovery; the same agent built in three frameworks.



LangGraph



CrewAI



Microsoft Agent Framework



Google ADK



Pydantic AI



smolagents

◆ Lab: a climate and energy briefing team, on NASA and NOAA weather data

WEEK 3

Agents that act

Browser and voice agents, agentic automation, evaluating agents, safety and cost control, managed agent platforms.



Playwright



LiveKit Agents



Bedrock AgentCore



Vertex AI Agent Engine

◆ Lab: a voice banking assistant, on Google's and PolyAI's banking dialogues

WEEK 4

The stack sprint and demo day

Designing LLM systems for the interview round, the questions AI Engineer interviews ask, a portfolio that gets callbacks.

◆ Projects 2 and 3: a customer-support agent for an online store, on Bitext's support data and Microsoft's AdventureWorks; a data-science copilot, on the Government of India's open data

THE TOOLS

110+ tools, *from Excel to AI agents.*

Every one used in a lesson or a lab, not just named.

The core Modules 1 to 6 · every plan

 Python	 SQLite	 Excel	 Power Query
 Power Pivot	 DAX	 Power BI	 Jupyter
 NumPy	 pandas	 Matplotlib	 Seaborn
 statsmodels	 MySQL	 MySQL Workbench	 Tableau
 scikit-learn	 XGBoost	 Apache Spark	 Gym
 TensorFlow	 Keras	 PyTorch	 Google Colab
 Hugging Face	 OpenAI API	 LangChain	 RAGAS
 MCP			

Modern AI Module 7 · every plan

 Transformers	 Ollama	 LM Studio	 llama.cpp
 Llama	 Qwen	 Gemma	 Mistral
 DeepSeek	 Sarvam AI	 AI4Bharat	 Ultralytics YOLO
 Segment Anything	 PaddleOCR	 Docling	 Whisper
 ElevenLabs	 CLIP	 Stable Diffusion	 FLUX
 GitHub Copilot	 Cursor	 Claude Code	 Copilot in Excel
 n8n			

GenAI & LLMs Module 8 · Plus · Infinity

 Anthropic Claude	 Google Gemini	 LiteLLM	 OpenRouter
 Pydantic	 Instructor	 DSPy	 promptfoo
 DeepEval	 Guardrails AI	 Llama Guard	 FAISS
 Chroma	 pgvector	 Qdrant	 Pinecone
 LlamaIndex	 Streamlit	 Gradio	 Chainlit
 FastAPI	 OpenAI Agents SDK	 Claude Agent SDK	 Azure AI Foundry

LLMOps, cloud and agents Modules 9 and 10 · Infinity

 Unstructured	 LlamaParse	 Cohere Rerank	 BGE
 Neo4j	 GraphRAG	 PEFT	 TRL
 Unsloth	 bitsandbytes	 vLLM	 Docker
 Kubernetes	 Redis	 Langfuse	 LangSmith
 Arize Phoenix	 OpenTelemetry	 MLflow	 Weights & Biases
 GitHub Actions	 AWS Bedrock	 Google Vertex AI	 Databricks
 Microsoft Presidio	 NeMo Guardrails	 MCP SDK	 A2A
 Mem0	 LangGraph	 CrewAI	 Microsoft Agent Framework
 Google ADK	 Pydantic AI	 smolagents	 Playwright
 LiveKit Agents	 Bedrock AgentCore	 Vertex AI Agent Engine	

CERTIFICATES

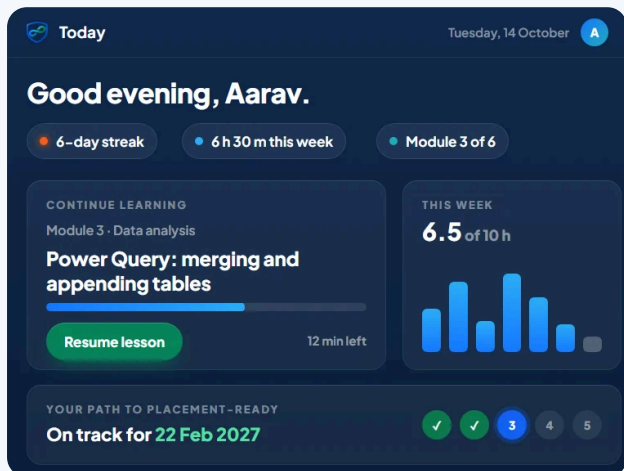
Up to 10 certifications worth about ₹1,04,000, included.

From Microsoft, AWS, Google Cloud, Databricks and NVIDIA, each issued and verified by the company itself: 1 on Go, 3 on Plus, all 10 on Infinity. Your free exams come once you complete the program, with our help to clear every exam, and our own verified certificate is on every plan.



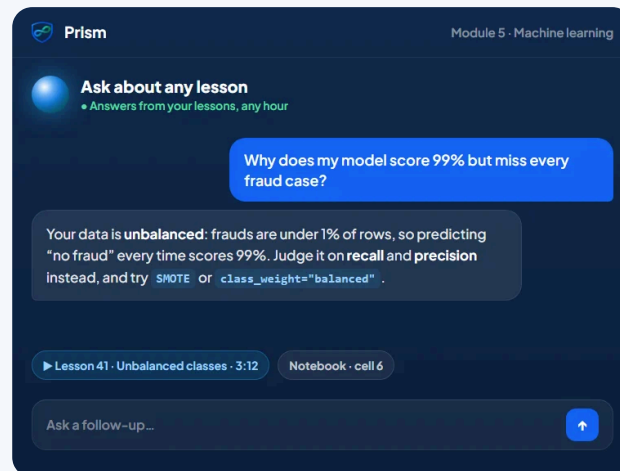
		WORTH	GO	PLUS	INFINITY
	Microsoft Power BI Data Analyst PL-300 · Every plan	₹4,865	✓	✓	✓
	Microsoft Azure AI Fundamentals AI-901 · Plus · Infinity	₹3,691	–	✓	✓
	Microsoft Azure AI Apps and Agents AI-103 · Plus · Infinity	₹4,865	–	✓	✓
	Microsoft MLOps Engineer Associate AI-300 · Infinity	₹4,865	–	–	✓
	Verified program certificate Every plan	Included	✓	✓	✓
	aws Certified AI Practitioner AIF-C01 · Infinity	₹8,800	–	–	✓
	aws Machine Learning Engineer, Associate MLA-C01 · Infinity	₹13,200	–	–	✓
	Google Cloud Professional Machine Learning Engineer Infinity	₹17,600	–	–	✓
	databricks Generative AI Engineer Associate Infinity	₹17,600	–	–	✓
	databricks Machine Learning Associate Infinity	₹17,600	–	–	✓
	NVIDIA Generative AI LLMs Associate NCA-GENL · Infinity	₹11,000	–	–	✓

Your pace, with help *a message away.*



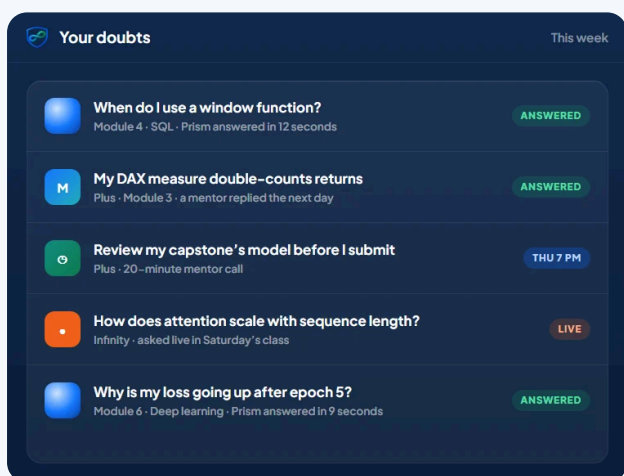
The learning platform

Short video lessons, notes and a lab every week, opening one after another as you finish. Lifetime access to the core modules.



Prism, your AI doubt helper

Our AI assistant for your doubts, any time of day, on Go and Infinity, alongside your plan's human support.



Doubt support, by plan

- Go** Support portal + Prism, the AI doubt helper
- Plus** A mentor answers in the support portal; a 20-min mentor call if a doubt waits over 48 hours (up to 4 a month)
- Infinity** Live in your weekend classes + Prism, the AI doubt helper



Live weekends on Infinity

Saturday and Sunday, 11 AM to 2 PM IST, at most 75 in a batch, with live mentors. Pause once for up to a year while you're doing the core.

DATA SCIENCE & AI JOB GUARANTEE PROGRAM

Start from your first line of code. *Pay once it pays you.*

Learn, get hired, then pay. Not placed after completing the program?
You pay ₹0.



READY WHEN YOU ARE

Scan, or tap, to choose your plan.

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