

| COURSE BROCHURE · 2026

AI & Machine Learning

2 months · live + recorded · Three deployed ML models + a full MLOps pipeline. The exact stack interview rounds at Indian product companies test in 2026.

DURATION

2 mo

MODULES

16

ROLES UNLOCKED

7+

| ABOUT THIS PROGRAMME

ML engineering in 2026 isn't 'train a model in a notebook' — it's owning the full pipeline from raw data to production. This programme takes engineers and final-year students from classical ML through deep learning and into production deployment. You'll cover regression, classification, tree ensembles, neural networks, transformers, MLOps (MLflow, model registry, monitoring), and the Gen AI integration every modern ML platform now ships. By the end you'll have shipped three deployed models and an MLOps pipeline — the exact stack interview rounds test.

| BUILT FOR

- Software engineers transitioning into ML roles
- Final-year students targeting ML Engineer positions
- Data scientists strengthening their production ML skillset

OUR COMMITMENT

Job-focused training. Real instructors. Lifetime access. We don't sell certificates — we get you hired.

WHY NOW · 2026 MARKET SIGNAL

ML engineering matured from 'specialist research role' to 'core product capability' in 2025-26. Every consumer + enterprise product is hiring ML engineers who can ship to production.

01

ML Engineer postings up 180% YoY on LinkedIn India

02

Median ML engineer offer at product cos: Rs 18 LPA (Naukri)

03

Production ML + Gen AI combo earns 40%+ premium over classical-only

TECHNOLOGY STACK

Technologies you'll master

The exact stack senior engineers + consultants are billing for in 2026 — nothing taught for show, everything taught because it lands on a job posting.

- Python — NumPy, Pandas, Matplotlib, scikit-learn
- Classical ML — regression, classification, clustering, ensembles
- Deep learning — TensorFlow + PyTorch + Keras
- NLP — transformers, BERT, Hugging Face
- Computer Vision — CNNs, OpenCV, image classification + detection
- Time-series — ARIMA, Prophet, LSTM forecasting
- MLOps — FastAPI, Docker, AWS SageMaker, MLflow
- Vector databases for semantic search
- Statistics + linear algebra + calculus for ML

WHY THIS PROGRAMME

What makes this different

- ✓ Three deployed ML projects with MLflow tracking and production monitoring
- ✓ Real production datasets — not toy Kaggle exercises
- ✓ Classical ML deep-dive — feature engineering, ensembles, calibration
- ✓ Hands-on with SHAP and LIME for interpretability and responsible AI
- ✓ Deep learning with PyTorch and transformers for vision and text
- ✓ Interview prep with 60+ ML engineer questions from product companies
- ✓ MLOps lifecycle: experiment → registry → deployment → monitoring
- ✓ Resume positioning for ML Engineer and Applied Scientist roles

| CAREER OUTCOMES

By the end, you will be able to

- ✓ Build production-grade ML pipelines from raw data to deployed model
- ✓ Tune hyperparameters with Optuna and proper cross-validation discipline
- ✓ Deploy models behind FastAPI and Docker with monitoring and canary releases
- ✓ Implement experiment tracking and model registry with MLflow
- ✓ Train transformer models for classification and sequence tasks in PyTorch
- ✓ Diagnose model drift and data quality issues in live production
- ✓ Pass ML engineering interviews at product cos paying Rs 10-30 LPA
- ✓ Translate ambiguous business problems into rigorous ML problem statements

| CAREER PATHS

Roles you can target

Roles ordered from entry → senior. The same role titles you'll see on Naukri, LinkedIn, and Instahyre filtered to the tech stack you'll master.

- Machine Learning Engineer
- Data Scientist
- Deep Learning Engineer
- NLP Engineer
- Computer Vision Engineer
- AI Research Engineer
- ML Ops Engineer

Emerging — high-demand roles for 2026

Roles that didn't exist five years ago, paying premium because the talent pool is small.

- LLM Engineer
- ML Platform Engineer
- AI Safety Engineer
- Multi-Modal ML Engineer

| CAREER TRAJECTORY

Where this programme leads, in 5 years

Median 2026 salary bands for the role progression this curriculum unlocks. Numbers are conservative — top performers cross the upper band earlier.

YEAR 1

ML Engineer

Rs 8-14 LPA

Ship first production model. Own training pipeline.

YEAR 3

Senior ML Engineer

Rs 16-28 LPA

Own ML platform pieces. Lead evaluation discipline.

YEAR 5

ML Platform Lead

Rs 30-50 LPA

Set ML strategy. Mentor 10+ engineers.

COURSE CURRICULUM

What you'll build, module by module

Every module is taught hands-on with real datasets, instances, or codebases — not slides. By the end, you'll have built, not just watched.

Foundations (Statistics + Python)

- AI/ML project lifecycle
- Roles in AI projects (Data Analyst, ML Engineer, AI ...)
- Data types in real-world projects (structured vs uns...)

Python

- Python Basics and Programming Fundamentals
- Data Types, Control Structures, and Functions
- Functions
- Loops & conditions with dataset use cases
- Working with NumPy

Data Visualization

- Scatter plots with ML interpretation

Statistics

- Descriptive Statistics
- Probability Concepts
- Data Distributions
- Inferential Statistics
- Hypothesis Testing
- Correlation and Regression Analysis

Data Handling & Exploratory Analysis

- Data Cleaning and Preparation
- Handling Missing Values and Outliers
- Feature Scaling and Encoding
- Exploratory Data Analysis (EDA)

Machine Learning (ML)

- Introduction to Machine Learning
- Supervised vs Unsupervised Learning
- ML lifecycle & workflow
- Model building intuition (how models actually learn)

Regression

- Regression Algorithms
- Regression evaluation: MSE, RMSE, R^2 with hands-on...

Classification

- Classification Algorithms
- Classification evaluation: Confusion Matrix, Precision...
- Feature selection techniques
- Overfitting vs underfitting (with examples)
- Model Evaluation Metrics
- Cross-Validation and Hyperparameter Tuning

Unsupervised Learning

- Clustering Algorithms
- K-Means clustering with Elbow Method
- Distance metrics (Euclidean, Manhattan – basic)
- Real-world clustering use cases
- Mini project on clustering

Advanced Machine Learning

- Decision Trees and Random Forest
- Ensemble Learning Techniques
- Support Vector Machines (SVM)
- Dimensionality Reduction (PCA, LDA)

Natural Language Processing (NLP)

- NLP pipeline (data → model → evaluation)
- Text Preprocessing Techniques
- Text cleaning with real datasets
- Tokenization, stemming vs lemmatization
- Feature Extraction (BoW, TF-IDF)
- Word Embeddings
- Word clouds
- Text Classification
- Sentiment Analysis
- End-to-end sentiment analysis project
- NLP mini project before capstone

Deep Learning

- Introduction to Neural Networks
- Perceptron model
- Activation and Loss Functions
- Forward & backward propagation intuition
- Backpropagation and Optimization
- ANN build using Keras (step-by-step)
- Epochs, batches, optimizers in practice
- Performance improvement case study
- Recurrent Neural Networks (RNN, LSTM, GRU)

Computer Vision

- Convolutional Neural Networks (CNN)
- CNN architecture breakdown
- MNIST / Image classification project
- Activation maps & feature extraction
- Transfer learning mini project

Advanced NLP & Transformers

- Sequence Models
- Attention Mechanism
- Transformers and BERT
- Hugging Face setup & usage
- Transformer fine-tuning steps
- Text classification using BERT
- Text Summarization and Language Modeling
- Evaluation best practices for transformers

Generative AI & Advanced AI

- Generative AI Fundamentals
- Large Language Models (LLMs)
- Prompt Engineering

Capstone Project

- Problem Definition and Data Understanding
- End-to-End Model Development
- Model Evaluation and Interpretation
- Final Presentation and Documentation

| INSTRUCTED BY

Trained by working practitioners

Not academics. Not pre-recorded YouTubers. Engineers and consultants who still ship production code at top companies — the exact people you want to learn from.



Mr. Vinay G

Industry Trainer

AI & Data Science trainer with 10+ years in EdTech, specializing in hands-on, outcome-based programs. He simplifies complex AI/ML concepts for diverse learners and designs industry-ready curriculum using tools like Python, SQL, and Tableau, empowering career transitions and real-world learning in technical education. Approved trainer by Raj Cloud Technologies.

APPROVED TRAINER · RAJ CLOUD TECHNOLOGIES

| WHAT'S INCLUDED

Everything you get beyond the curriculum

The sessions are the tip. Here's the full value stack a single fee unlocks — mentorship, community, career support, and lifetime updates.

- + Lifetime access to recordings — re-watch any session, forever
- + Private community access — get unblocked in minutes, not days
- + 1:1 mentor reviews on every portfolio project you build
- + Weekly doubt-clearing sessions led by the instructor
- + Resume + LinkedIn rewrite by a working hiring manager
- + Two full mock interviews with real-time feedback
- + Interview question bank — 50+ scenario-based questions
- + Real-world datasets + playground accounts you keep
- + Verifiable course completion certificate
- + Lifetime curriculum updates — when modules refresh, you get them

ENROLMENT

Pick your tier and enrol

Two tiers — pick what fits your budget. Both include lifetime access to recordings and a verifiable certificate.

LIVE + RECORDED

MOST POPULAR

Rs 21,999

- ✓ All live sessions + Q&A
- ✓ Lifetime recordings
- ✓ Doubt-clearing sessions
- ✓ Resume + interview prep
- ✓ Certificate of completion

RECORDED ONLY

Rs 15,399

Save Rs 6,600

- ✓ Lifetime access to recordings
- ✓ Self-paced learning
- ✓ Certificate of completion
- ✗ No live sessions
- ✗ No live Q&A

HOW TO ENROL

Three steps to your seat

01 Book a free demo

30-min walk-through with the instructor — ask anything before you commit.

02 Pick your tier + enrol

Live + Recorded or Recorded-only. UPI, card, EMI — all accepted.

03 Start on day one

Onboarding kit, course portal access, and your first live session calendar invite.

I HOW WE STACK UP

Compared to your alternatives

Free tutorials and generic bootcamps both have their place. Here's exactly where they fall short — and where the fee here pays for itself.

WHAT YOU GET	FREE YOUTUBE TUTORIALS	GENERIC BOOTCAMPS	RAJ CLOUD
Live practitioner instructors	×	×	✓
Real datasets + playground accounts	×	partial	✓
1:1 mentor reviews on your portfolio	×	×	✓
Mock interviews with feedback	×	partial	✓
Resume + LinkedIn rewrite	×	×	✓
Job referral network access	×	×	✓
Lifetime updates + recordings	partial	×	✓
Verifiable certificate	×	✓	✓

I QUESTIONS ANSWERED

Common questions, answered upfront

Q. Do I need prior experience to start?

Most students begin with little to no experience. We assume only basic computer literacy. The first two weeks ramp you up to the level the rest of the curriculum needs — no one is left behind.

Q. What if I miss a live session?

Recordings are uploaded within 24 hours of every session. Weekly doubt-clearing sessions catch you up on missed material. Your community is active 24/7. Nothing gets lost, only delayed.

Q. Is there a job placement guarantee?

We don't promise placement — we engineer outcomes. Resume + LinkedIn rewrite, two mock interviews, a referral network, and portfolio reviews are all included. The work happens; the offer is yours to earn.

Q. Can I pay in instalments?

Yes. UPI EMI, credit-card EMI, and a 3-month no-cost split-pay are all supported. Email admissions and we'll set up a plan that fits your cash flow.

Q. Does the certificate hold weight in interviews?

Yes. It's dated, verifiable via our website, and signed by the trainer. Alumni reference it on LinkedIn and inside offer-stage interview rounds — but the portfolio you build matters more, and that's the point.

Talk to admissions

EMAIL

info@rajcloudtech.com

PHONE

[+91 93804 87284](tel:+919380487284)

WEB

rajcloudtech.com

OUR COMMITMENT

Job-focused training. Real instructors. Lifetime access. We don't sell certificates — we get you hired.