MASTER DEEP LEARNING
COURSE With Placement

Build In-Demand Professional Expertise with Real-Time Hands-on Deep Learning Training

BEST RATED ON TOP PLATFORMS

Google Reviews ★★★★★ | Trustpilot ★★★★★ | Sulekha ★★★★★

COURSE BENEFITS

- 100% Practical & Real-Time Hands-on Labs
- End-to-End Capstone Implementation Projects
- Industry Recognized Certification Preparation
- 100% Dedicated Placement Support in MNC's & Mock Interviews

15+	500+	25K	15K
YEARS OF EXCELLENCE	HIRING PARTNERS	STUDENTS TRAINED	STUDENTS PLACED

Chat on WhatsApp
FREE Career Counselling
+91 85500 00909

YOUR FUTURE
STARTS HERE !

ARE YOU FACING THESE CHALLENGES ?

- Still searching for your first job after graduation?
- Worried about the Gap? And don't know how to start your career?
- Stuck in a low-salary job? and seeking for better growth opportunities?
- Fear of switching to an IT career from a non-IT background
- Not getting interview calls despite applying to 100+ jobs?

TOO MUCH THEORY
NO PROJECTS
SKILL GAP
NO GUIDANCE

How Inventateq Helps You

Waiting Ends. Careers Begin.
Build job-ready skills. Start applying with confidence.

Turns Gaps into Comebacks
Close skill gaps. Rebuild your career

Break Free. Move Forward
Learn in-demand skills. Take your next career step.

Doubt Out. Confidence In.
Practice real skills. Walk into interviews prepared.

Turn Rejections into Chances
Turn every setback into skills employers value.

Be Smart Learn AI
Learn AI tools. Work smarter. Stay updated

ABOUT INVENTATEQ

Inventateq is a leading IT training and placement company committed to transforming learners into Industry ready professionals

Our Mission
To deliver high-quality education, practical slots and career opportunities that empower individuals to achieve their dreams

Our Vision
To be a globally recognised training company known for innovation, quality and impactful learner outcomes.

Why Thousands Choose Inventateq?

15+	500+	25,000+	15,000+
Years of Excellence	Hiring Partners	Students Trained	Students Placed

We Collaborate With

Deloitte. Capgemini amazon HCL Tech Mahindra

WHY LEARN DEEP LEARNING ?

Enterprises worldwide are actively hiring certified Deep Learning professionals to drive critical business operations, digital transformation, and modernization.

CAREER SCOPE OF DEEP LEARNING

- **Exponential Industry Demand**
  Rapid enterprise adoption across global IT firms, MNCs, and technology centers
- **Premium Salary Compensation**
  Command competitive compensation packages with rapid growth milestones
- **Cross-Industry Opportunities**
  Versatile skill set applicable across technology, consulting, finance, and core sectors
- **Future-Proof Career Growth**
  Long-term job security supported by ongoing digital modernization and tooling investment
- **Global Certification Pathways**
  Direct alignment with recognized industry certifications to validate your competence
- **Worldwide Job Prospects**
  Open doors to roles in major Indian tech hubs as well as international remote positions

INDUSTRY-RECOGNIZED CERTIFICATION

INVENTATEQ
CERTIFICATE
OF ACHIEVEMENT
This Certificate is proudly present to
Gaurang Ahinave
has successfully completed the Python Course and demonstrated outstanding performance, achieving an A Grade.
This certificate recognizes the successful completion of the program requirements during the period from August 01, 2026 - August 18, 2026
scan to verify
SIGNATURE

QR Verified | Globally Valid | ISO 9001:2015

Top-Tier Data & AI Demand. Global Analytics Roles. Premium Compensation.

Average Deep Learning Engineer Salary in India

₹7.5 LPA – ₹24 LPA

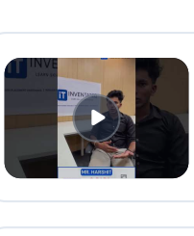
WHY INVENTATEQ ?

Because we have placed over 15,000+ students and we can place you as well

STUDENT PLACEMENTS

- 100% Placement Assurance Support
- 500+ Top Tech Hiring Partners
- Resume & LinkedIn Optimization
- Industry Mock Technical Interviews
- Unlimited Interview Calls Until Placed

COURSE & PLACEMENT VIDEOS



Student Genuine Feedback
9.5 LPA Career Success in AI!...
Inventateq Bangalore Reviews
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Practical Training Success
Data Science Course in Bangalore, Learn AI Tr...
Industry Tech Career
Watch Video

Placement Story
Inventateq Reviews & Student Genuine Feed...
Campus to MNC Offer
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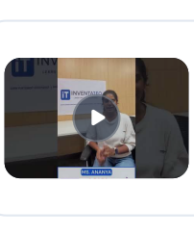


Interview Skills & Growth
Ananya's Placement Success Story | AI Course ...
Free Student Masterclass
Watch Video

> At Inventateq, Your Success is Our Mission !

GUARANTEED PLACEMENT SUPPORT

We don't just teach, we prepare you for the real world!

- Aptitude Training
- Technical Training
- Mock Interviews
- HR Interview Preparation
- Resume Preparation
- Cover Letter Preparation
- LinkedIn Profile Optimisation
- Job Portal Access
- Placement Drives & Hiring Events

OUR RECRUITMENT PARTNERS

TATA, Infosys, wipro, Capgemini, Tech Mahindra, LARSEN & TOUBRO, HCL TECH, accenture

OUR PLACEMENT STATS

Our placement record reflects consistent growth, with students securing opportunities across leading companies in diverse industries.

15,000+	500+	95%	6 LPA
Students Placed	Companies Hired	Placement Ratio	Average Package

Check Most Recent Placements

CAREER PROGRESSION

Job responsibilities, technical competency and portfolio evidence for each role.

ROLE PATHWAY	TYPICAL RESPONSIBILITIES	PORTFOLIO PROOF
Deep Learning Developer	Manage core Deep Learning tasks, configure tooling, and support delivery.	Practical Deep Learning setup files, exercise scripts, and documentation.
Deep Learning Specialist	Build practical Optimization, Regularization workflows, implement features, and resolve issues.	Functional Optimization, Regularization modules, workflow configs, and practical deliverables.
Lead Deep Learning Engineer	Lead Deep Learning technical delivery, design solutions, and set standards.	Complete Deep Learning capstone artifacts, technical blueprints, and reports.

SKILLS ROADMAP

Progress from core foundations to production-ready enterprise workflows.

MILESTONE	PRACTICAL OUTPUT	REVIEW EVIDENCE
Milestone 1 (Foundations)	Master fundamental Deep Learning concepts, environment setup, and tools.	Configured Deep Learning workspace and verified practice exercises.
Milestone 2 (Implementation)	Develop practical Optimization, Regularization workflows and functional domain modules.	Working Optimization, Regularization project modules and validated practice outputs.
Milestone 3 (Advanced Workflows)	Implement advanced Recurrent Neural features, integrations, and optimizations.	Validated Recurrent Neural configurations and technical review outputs.
Milestone 4 (Production Capstone)	Deliver an end-to-end Deep Learning capstone project and technical review.	Complete Deep Learning project portfolio artifact and defense.

DETAILED MODULE PLAN

7 in-depth modules • 3 Months Duration • Hands-on practical training

1 Module 1: Foundations of Deep Learning & Neural Networks

- What is Deep Learning and why it outperforms classical ML on high-dimensional data
- Mathematical foundations: Tensors, linear algebra, matrix multiplication, and calculus gradients
- Architecture of an Artificial Neural Network (ANN): Input, Hidden, and Output layers
- Forward propagation and mathematical derivation of Backpropagation
- Activation functions: Sigmoid, Tanh, ReLU, Leaky ReLU, and Softmax
- Loss functions: Mean Squared Error, Binary Cross-Entropy, and Categorical Cross-Entropy

GUIDED LAB
Build and evaluate a practical machine learning workflow for Deep Learning and why it.

INTERVIEW & ASSESSMENT
Explain how Deep Learning and why it helps businesses solve complex problems with AI.

2 Module 2: Optimization, Regularization & Training Deep Networks

- Optimization algorithms: Stochastic Gradient Descent (SGD), Mini-batch GD, Momentum, and Adam
- Learning rate schedules, warmups, and adaptive learning rates
- Preventing Overfitting in Deep Networks: L1/L2 Regularization, Dropout layers, and Early Stopping
- Batch Normalization: Accelerating training and stabilizing deep hidden layers
- Weight initialization strategies: Xavier (Glorot) and He initialization

GUIDED LAB
Build and evaluate a practical machine learning workflow for Optimization algorithms: Stochastic Gradient Descent.

INTERVIEW & ASSESSMENT
Explain how Optimization algorithms: Stochastic Gradient Descent helps businesses solve complex problems with AI.

3 Module 3: Convolutional Neural Networks (CNN) for Computer Vision

- Why standard neural networks fail on images: Parameter explosion and spatial hierarchy
- Convolution operation: Kernels, Filters, Stride, and Padding (Valid vs Same)
- Pooling layers: Max Pooling vs Average Pooling for spatial downsampling
- Famous CNN Architectures: LeNet, AlexNet, VGG, ResNet (Residual Skip Connections), and EfficientNet
- Transfer Learning: Using pre-trained models on ImageNet, fine-tuning, and feature extraction
- Data Augmentation techniques: Random flips, rotations, zooming, and color jittering

GUIDED LAB
Build and evaluate a practical machine learning workflow for Why standard neural networks fail.

INTERVIEW & ASSESSMENT
Explain how Why standard neural networks fail helps businesses solve complex problems with AI.

4 Module 4: Recurrent Neural Networks (RNN) for Sequential Data

- Sequential data modeling: Text, time-series, audio, and sensor streams
- Standard Recurrent Neural Network (RNN) architecture and the Vanishing/Exploding Gradient problem
- Long Short-Term Memory (LSTM) Networks: Forget Gate, Input Gate, Output Gate, and Cell State
- Gated Recurrent Units (GRU): Architecture, speed advantages, and use cases
- Bidirectional RNNs and multi-layer stacked recurrent architectures

GUIDED LAB
Build and evaluate a practical machine learning workflow for Sequential data modeling: Text.

INTERVIEW & ASSESSMENT
Explain how Sequential data modeling: Text helps businesses solve complex problems with AI.

5 Module 5: The Transformer Revolution & Attention Mechanisms

- The limitation of recurrent models: Sequential processing bottleneck
- The Attention Mechanism: Query, Key, Value vectors and Scaled Dot-Product Attention
- Multi-Head Attention and Positional Encodings
- Transformer Encoder architecture: BERT and representation models
- Transformer Decoder architecture: Generative Pre-trained Transformers (GPT)

GUIDED LAB
Build and evaluate a practical machine learning workflow for limitation of recurrent models: Sequential.

INTERVIEW & ASSESSMENT
Explain how limitation of recurrent models: Sequential helps businesses solve complex problems with AI.

6 Module 6: Generative Deep Learning Models

- Autoencoders and Denoising Autoencoders for feature compression
- Variational Autoencoders (VAEs): Latent space distribution and probabilistic generation
- Generative Adversarial Networks (GANs): Generator vs Discriminator min-max game
- Introduction to Diffusion Models for modern high-fidelity image generation

GUIDED LAB
Build and evaluate a practical machine learning workflow for Autoencoders and Denoising Autoencoders for.

INTERVIEW & ASSESSMENT
Explain how Autoencoders and Denoising Autoencoders for helps businesses solve complex problems with AI.

7 Module 7: Deep Learning Frameworks, Hardware & Model Deployment

- Master deep learning frameworks: PyTorch and TensorFlow / Keras workflows
- Accelerating training with hardware: GPUs, CUDA, mixed precision (FP16), and cloud TPUs
- Model export and optimization: ONNX (Open Neural Network Exchange) format and TorchScript
- Serving deep learning models in production: Building high-throughput inference APIs with FastAPI and Docker
- Hands-on Practical Projects:
- Medical Image Classification with Transfer Learning: Fine-tune a pre-trained ResNet-50 in PyTorch to detect pneumonia in chest X-ray scans with high sensitivity and specificity.
- Financial Time-Series Forecasting with LSTMs: Build and train a multi-layer LSTM network to forecast future stock prices and volatility based on historical market trends.
- Natural Language Sentiment Analyzer with Transformers: Fine-tune a pre-trained Hugging Face Transformer model to analyze and classify customer sentiment in thousands of product reviews.

GUIDED LAB
Train a basic prediction model on sample data and test its accuracy on new records.

INTERVIEW & ASSESSMENT
Explain how computers learn patterns from past data to predict future outcomes.

REAL-WORLD PORTFOLIO PROJECTS

Practical industry scenarios, tools applied, and demonstrable project outcomes.

Project 1: Deep Learning Neural Setup & Architecture

What it is: Set up the core Deep Learning Neural environment and configure essential business settings.

What you do: Initialize base configurations, create clean templates, and verify workflow controls.

Tools used: Deep Learning, Deep Learning Neural, Deep Learning it

Project outcome: Working project foundation configured and tested according to best practices.

Project 2: Optimization Regularizati System

What it is: Build practical Optimization Regularization Training modules to handle everyday business operations.

What you do: Create core functional components, validate input data, and prevent common errors.

Tools used: Deep Learning, Optimization Regularization Training

Project outcome: Functional business module ready to run and demo with zero manual errors.

Project 3: Recurrent Neural Networks Data & Logic Pipeline

What it is: Connect Recurrent Neural Networks with Sequential data modeling to automate data and team workflows.

What you do: Set up automated pipelines, link required services, and run end-to-end tests.

Tools used: Deep Learning, Recurrent Neural Networks, Sequential data modeling

Project outcome: Live automated workflow pipeline documented with clear usage guides.

Project 4: Deep Learning End-to-End Capstone

What it is: Build a complete, production-ready Deep Learning project bringing all skills together.

What you do: Design, code, test, and document a full project workflow from scratch to launch.

Tools used: Deep Learning, Generative Deep Learning

Project outcome: Verified capstone project ready to showcase on your resume and interview calls.

ASSESSMENT FRAMEWORK

Module tests, practical evaluations, capstone and completion criteria.

COMPONENT	ASSESSMENT FOCUS	PASS EVIDENCE
Module Knowledge Quizzes	Core Deep Learning principles, industry terminology, and workflow concepts	Consistent passing score across syllabus unit evaluation tests
Lab Submissions & Practice Reviews	Hands-on Optimization Regularization implementation, configuration, and practical exercises	Working lab deliverables satisfying practical evaluation rubrics
Hands-On Mini Projects	Independent problem-solving using intermediate Recurrent Neural techniques	Functional project artifacts addressing realistic domain scenarios
Final Production Capstone	End-to-end Deep Learning implementation, quality review, and delivery	Complete capstone submission with technical walkthrough review
Technical Mock Viva	Technical reasoning, troubleshooting approaches, and communication	Successfully defending project decisions in structured mock panels

RESUME, GITHUB & LINKEDIN

Evidence-based resume writing and professional project presentation.

- Modular GitHub repository per project with setup steps, dependencies, and clean commits.
- Detailed Deep Learning diagrams, component specifications, and end-to-end workflows.
- Visual project sheets, live demonstration walkthroughs, and verified functional outputs.
- Project documentation covering Optimization Regularization setup, configuration steps, and test notes.
- Direct resume bullet points highlighting hands-on Deep Learning tools and technical outcomes.
- Structured practice for technical interview pitches, walkthroughs, and viva defense.

OUR STUDENT

Meet the learners who turned their goals into successful careers through dedication, skill, and continuous growth.

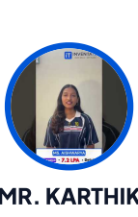
READ REVIEWS

MS. SNEHA
Placed at Wipro (9.5 LPA)

> "The practical lab sessions gave me the confidence to transition into enterprise roles. Working on real-world datasets helped me clear technical interviews effortlessly!"
> Course Completed : **Deep Learning Specialist** G ★★★★★

MR. HARSHIT
Placed at Accenture (11.2 LPA)

> "Inventateq's focus on industry capstone projects and mock interviews was game-changing. The mentors guided me through every real-world implementation hurdle."
> Course Completed : **Deep Learning Specialist** G ★★★★★



MR. KARTHIK
Placed at Capgemini (10.5 LPA)

> "Moving from beginner theory to hands-on enterprise tools was seamless. The portfolio defense preparation helped me crack my MNC placement round!"
> Course Completed : **Deep Learning Specialist** G ★★★★★

WATCH VIDEOS

Watch real stories from our students as they talk about their journey, growth, and placement success.

₹8.5 LPA
MR. HARSHIT

9.5 LPA Career Success in AI!
Course Video 1 • Student Feedback
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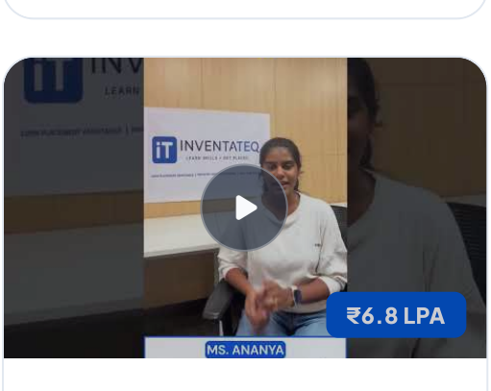
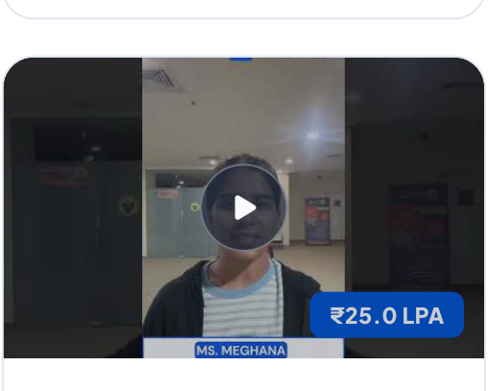
Data Science Course in Bangalore, Learn AI Training with Placement
Course Video 2 • Student Feedback
Watch Story

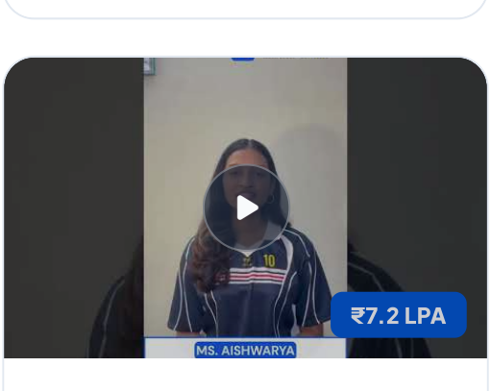
Inventateq Reviews & Student Genuine Feedback Bangalore
Course Video 3 • Student Feedback
Watch Story



Ananya's Placement Success Story | AI Course | 6.5 LPA at Accenture| Inventateq
Course Video 4 • Student Feedback
Watch Story



Ms. Meghana Upskilled & Placed at 25 LPA
Top Offer • Enterprise Consultant
Watch Story



Ms. Aishwarya Placed for 7.2 LPA Package
Verified Offer • Software Dev
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INVENTATEQ
LEARN SKILLS • GET PLACED

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