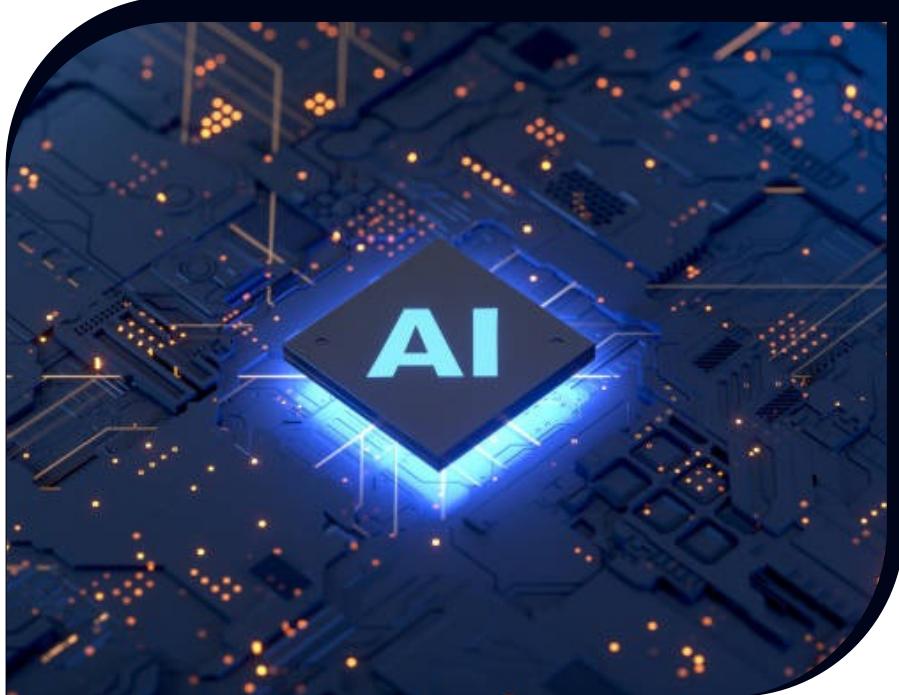




**Skill India**  
कौशल भारत - कुशल भारत



# **ARTIFICIAL INTELLIGENCE COMPLETE COURSE**

# **ANSH InfoTech Affiliation with Skill India**



**Skill India**  
कौशल भारत - कुशल भारत

# Career in Artificial Intelligence



## Why Build a Career in Artificial Intelligence?



### Demand is So High For Artificial Intelligence

The outlook is good with the industry expected to grow more than the national average. Tens of thousands of jobs are expected to be added to the industry each year for the rest of the decade.



### 8+ Job Roles & Career Paths

Opportunity to work in almost every industry and across various fields like AI Engineer/Developer, Machine Learning Engineer, Data Scientist, AI Research Scientist, Natural Language Processing (NLP) Engineer, and many more.



### 7.0 Lakh Per Annum Average Salary

AI Engineer salary in India ranges between ₹ 3.0 Lakhs to ₹ 20.0 Lakhs with an average annual salary of ₹ 7.0 Lakhs. Salary estimates are based on 509 latest salaries received from AI Engineers.



### Guaranteed Growth in Job and Career

By acquiring the right skills, you can be on your way to building a fast-growing career in the field of Artificial Intelligence



### Work Remotely for International Companies

Numerous brands and organizations around the world hire Artificial Intelligence professionals for remote work and offer a lucrative package.



### Opportunities in Both Public & Private Sectors

As an Artificial Intelligence professional, you have the opportunities to work in both public and private sector organizations of all sizes.

# Who Can Learn Artificial Intelligence?

Learning Artificial Intelligence becomes easier for you with proper guidance & advanced projects by ANSH InfoTech's artificial intelligence expert trainers. You can acquire this skill if you are:



## College Student

Start shaping your career right from college time by learning in demand Artificial Intelligence skills.



## Graduate

Time for you to upskill, prepare yourself for a bright future, and kickstart a career in Artificial Intelligence.



## College Dropout

Not sure which career is right for you? Not finding any jobs? Learn Artificial Intelligence with us to instantly land your first job.



## Looking to Switch Career

Not satisfied with your current job profile? Switch to Artificial Intelligence, one of the most demanded and highly-paid skills.

# A Brief About Ansh InfoTech

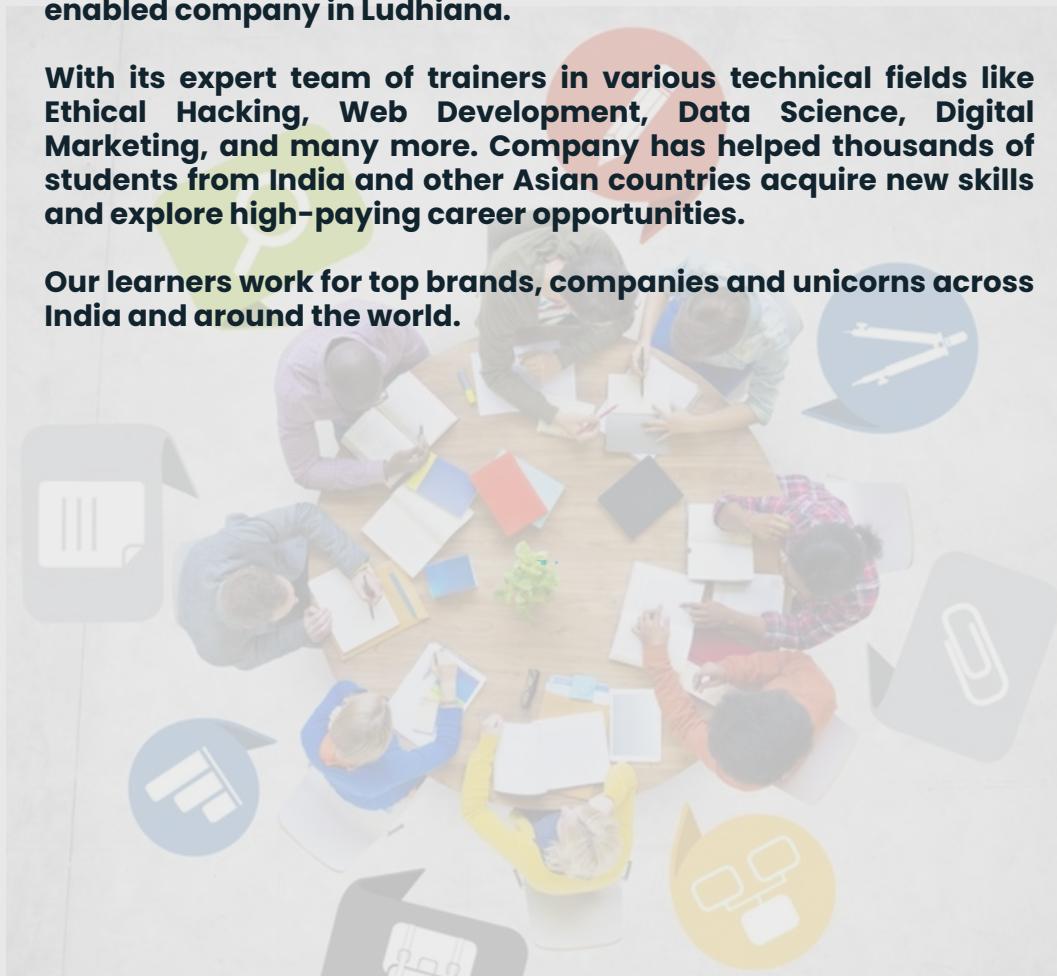
India's Most Trusted IT Training Institute

Ansh InfoTech is a leading IT training and software development company based in Ludhiana, Punjab, India. Since 2014, Ansh InfoTech has trained over 50k students and provided internship opportunities to over 4,500 candidates.

Additionally, Ansh InfoTech is one of the fastest growing tech-enabled company in Ludhiana.

With its expert team of trainers in various technical fields like Ethical Hacking, Web Development, Data Science, Digital Marketing, and many more. Company has helped thousands of students from India and other Asian countries acquire new skills and explore high-paying career opportunities.

Our learners work for top brands, companies and unicorns across India and around the world.



# **Why Learn Artificial Intelligence With ANSH InfoTech Only?**





## Trusted by **50k** Learners

We are the #1 preference of more than 50k learners in India and Asian countries. Our training quality and support system intrigue learners.



## Completely **Practical-Oriented**

Artificial Intelligence is a skill that requires immense practice. For that, we offer 100% practical training with regular assignments, assessments, and projects.



## Online and Offline Batches

Artificial Intelligence is a skill that requires immense practice. For that, we offer 100% practical training with regular assignments, assessments, and projects.



## Comprehensive Curriculum

Artificial Intelligence course by ANSH InfoTech includes India's most comprehensive curriculum, covering all breadths and depths in detail & practically.



## Job Assistance

On course completion, we assist you with job interviews and resume building. Next, your interviews are arranged with top companies to help you land the job easily.



## Expert Trainers

You will learn Artificial Intelligence from expert trainers having 10+ years of experience in the field. We ensure high-quality training always.



## Industry-Recognized Certification

The certificate you receive on course completion is valid nationally and internationally. You can easily share it, add it to your resume, and explore great opportunities.



## Hands-On Live Projects

You will apply all the practices on real websites (no dummies), do everything on your own, and make use of premium tools.



# Complete Course Curriculum

# Master all Concepts of Artificial Intelligence!

## Module 01

### INTRODUCTION TO PYTHON

- Functions and If – Else Loops Statement
- Control Flow Statements
- Lists & List Comprehension
- Sets, Dictionaries & Dictionary comprehension
- Working with classes
- Inheritance
- Polymorphism

## Module 02

### INTRODUCTION TO MACHINE LEARNING & TYPES OF ML

- Overview of machine learning concepts and applications
- Types of machine learning: supervised, unsupervised, and reinforcement learning
- Machine learning workflow and model evaluation

## Module 03

### DATA PRE-PROCESSING FOR MACHINE LEARNING

- Data cleaning: handling missing values, outliers, and inconsistent data
- Feature selection and feature engineering techniques
- Data scaling, normalization, and transformation

## Module 04

### INTRODUCTION TO EDA

- Overview of data preprocessing and EDA concepts
- Importance of data preprocessing and EDA in the data analysis pipeline
- Key steps involved in data preprocessing and EDA

## Module 05

### INTRODUCTION TO SUPERVISED LEARNING

- Overview of supervised learning and its applications
- Difference between features, labels, and target variables
- Training and testing data split for model evaluation

## Module 06

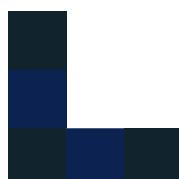
### LINEAR REGRESSION

- Simple linear regression with one input feature
- Multiple linear regression with multiple input features
- Model evaluation metrics: mean squared error, R-squared

## Module 07

### LOGISTIC REGRESSION

- Binary logistic regression for classification problems
- Multinomial logistic regression for multi-class classification
- Model interpretation and decision boundaries



# Course Curriculum

## Module 08

### **DECISION TREES AND RANDOM FORESTS**

- Basics of decision trees and tree-based modeling
- Ensemble learning with random forests
- Feature importance and tree visualization

## Module 09

### **SUPPORT VECTOR MACHINES (SVM)**

- Maximum margin classification with linear SVM
- Non-linear classification with kernel SVM
- SVM hyperparameter tuning and kernel selection

## Module 10

### **K-NEAREST NEIGHBORS (K-NN)**

- Distance metrics for k-NN classification and regression
- Choosing the optimal value of k
- Pros and cons of k-NN algorithm

## Module 11

### **NAIVE BAYES CLASSIFIERS**

- Introduction to Bayes' theorem and conditional probability
- Naive Bayes assumptions and classifier formulation
- Application to text classification and spam filtering

## Module 12

### **EVALUATION METRICS AND TECHNIQUES**

- Confusion matrix, accuracy, precision, recall, F1 score
- Receiver Operating Characteristic (ROC) curves
- Cross-validation techniques: k-fold, stratified, and leave-one-out

## Module 13

### **OVERRFITTING AND REGULARIZATION**

- Bias-variance tradeoff and model complexity
- Regularization techniques: L1 and L2 regularization
- Validation curves and learning curves for model assessment

## Module 14

### **INTRODUCTION TO AI AND ANN**

- Overview of AI and its applications
- Introduction to artificial neural networks
- Perceptron and activation functions
- Backpropagation algorithm
- Building a basic feedforward neural network
- Model training and evaluation



# Course Curriculum

## Module 15

### **CNN AND COMPUTER VISION WITH OPENCV**

- Introduction to Convolutional Neural Networks (CNN)
- Convolutional layers, pooling layers, and fully connected layers
- Image classification with CNN
- Transfer learning and pre-trained models
- Introduction to computer vision using OpenCV
- Image preprocessing and feature extraction
- Object detection and image segmentation

## Module 16

### **RNN AND NATURAL LANGUAGE PROCESSING (NLP)**

- Introduction to Recurrent Neural Networks (RNN)
- Basic RNN, LSTM, and GRU architectures  
Sequence modeling and time series analysis
- Text preprocessing and word embeddings
- Language modeling and sentiment analysis
- Named Entity Recognition (NER) and part-of-speech tagging
- Sequence-to-sequence models and machine translation

## Module 17

### **GAN AND GENERATIVE MODELS**

- Introduction to Generative Adversarial Networks (GAN)
- GAN architecture and training process
- Deep convolutional GANs (DCGAN)
- Conditional GAN and semi-supervised learning
- StyleGAN and image synthesis
- Variational Autoencoders (VAEs) and latent space interpolation
- Applications of generative models in image generation and data augmentation

## Module 18

### **PROJECT AND PRACTICAL APPLICATIONS WITH OPEN CV**

- Capstone project: Apply AI techniques learned throughout the course to solve a real-world problem
- Choose a project that involves one or more aspects of AI, such as image classification, text generation, or language understanding
- Develop and train models using appropriate neural network architectures and techniques
- Implement practical applications using AI technologies
- Present and showcase the project, demonstrating the acquired skills and knowledge



# Job/Placement Assistance

Once you complete the Artificial Intelligence Course, you will get advanced placement assistance to help you prepare for the job. We will evaluate your skills, prepare you for the interview, and arrange interviews with top companies.

- **Interview Preparation and Live Practice**
- **Appealing Resume Building**
- **Conducting Interviews at Various Companies**
- **Internship Opportunities**
- **Getting High-Paying Freelance Projects**

Students We've Trained Work at Renowned Companies,  
Startups, and Brands



# Our Students Speak for Us!



**Siddhart  
Bhasil**

"I did not have knowledge about this field before enrolling in this course. However, everything was taught from scratch. Initially, I thought I can't do this. But the way of teaching and content is really simple and great!"



**Stuti  
Kumari**

"This is simply the best Machine Learning & I course. Teachers did a great job and put his heart into teaching all concepts of the course. Whenever I had doubts, they were eager to answer and helped me learn easily. Highly recommended."



**Urvashi  
Mishra**

"I'm glad I made the decision to take this course in ANSH InfoTech. Can't appreciate it enough. I missed a few live classes but they provided me the recording and also cleared my doubts in the next classes."



**Sandeep  
Kumar**

"The trainer here makes the content easy to learn and answers all the questions during the classes. I learned a lot of important concepts which looked so complex to me when I started. I recommend this course to anyone who wants to learn any course here."



**Ravi  
Prakash**

"Thank you ANSH InfoTech. I really learned a lot during the entire Machine Learning & AI training. The practicals, exercises, and projects were really good. I applied for a few jobs in the Machine Learning field and finally got placed with a good package."



**Ajay  
Gupta**

"I would like to thank the trainer and ANSH InfoTech for the enhanced training provided during the entire course. The trainer has brilliant knowledge. The course content covers beginner to pro. Also, teachers here are good motivators and friendly."

# CERTIFICATE OF ANSH INFOTECH AFFILIATION WITH SKILL INDIA



## Certificate of Affiliation



**Skill India**  
कौशल भारत - कुशल भारत

This is to certify that

ANSH INFOTECH (16217)

is an **Authorised Training Center of**  
National Skill Qualification Framework (NSQF)



Scan Barcode with your Mobile Phone  
or App for verification of the Certificate

Date of Issue : 10 September, 2023  
Valid Upto: 09 September, 2025

Signing Authority  
An Approved Training Partner of  
National Skill Qualification Framework

# STUDENT CERTIFICATE



## CERTIFICATE

This is to certify that

**ARADHYA MALHOTRA**

Son/ Daughter of **JATINDER KUMAR** Candidate ID : **CAN\_26645166**

has successfully completed training in

**"DIPLOMA IN DATA ANALYTICS AND MACHINE LEARNING"** Course

conforming to National Skill Qualification Framework-Level 5

with Grade A

from **ANSH INFOTECH**

at **LUDHIANA, PUNJAB**

Date of Issuance : **2023-10-20**



Scan Barcode with your Mobile Phone  
or App for verification of the Certificate

Signing Authority

An Approved Training Partner of  
National Skill Qualification Framework

# Events & Workshops at ANSH InfoTech



## WORKSHOPS







# PLACEMENT DRIVE AT ANSH InfoTech



# AWARDING STAR PERFORMERS





# Take Your Career's Most Important Step Today

Towards Building a Thriving Career in **Data Science!**

■ Course Duration: 6 Months

SkillIndia  
कौशल भारत - कौशल भारत

Call Now for more info : +91 94171-68347 / +91 84278-99400

**Contacts Us:**

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