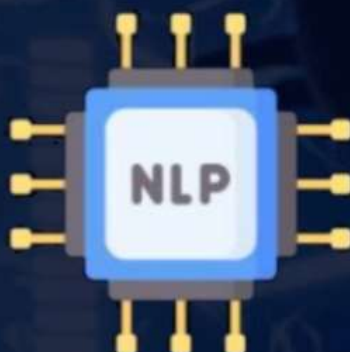


GENERATIVE AI

GENERATIVE



A Brief About **UPFLAIRS**

UpFlairs is an innovative **educational technology** company with a clear mission to elevate the skills and employability of students throughout India.

Our dedicated team is committed to fostering the next generation of tech talent, equipping them with cutting-edge skills in emerging technologies and has educated more than 47K students all over the globe including IITs, NITs, Deemed Universities and other colleges.

We offer the courses that are most trending technologies of the recent era in the fields like **AI/ML, Data Science, Cloud Computing, DevOps, Full Stack Web Development, Embedded Systems, IoT, and Robotics**. These courses are meticulously designed to provide students with the practical skills and knowledge required to excel in tech-driven careers, making them not just job-ready but industry leaders of tomorrow.

We are not only limited to training the youth of the country but also provide Lab setups to various Colleges and Universities and Project solutions to other companies for the domains like **AI-ML, IOT , ROBOTICS AND CLOUD**.



Career Opportunities In Generative AI



Machine Learning Engineer

Implement AI-powered solutions using deep learning and neural networks.



AI Product Manager

Lead AI-driven projects and integrate generative AI into business applications.



AI Content Creator

Utilize AI tools to generate creative content for marketing, design, and media.



AI Research Scientist

Develop advanced AI models for text, image, and video generation.



Prompt Engineer

Optimize and fine-tune AI-generated responses for better user interaction.



AI Ethics & Policy Analyst

Ensure ethical AI development and compliance with regulations.



Who Should Go For **Generative AI** ?



College Student

Start shaping your career right from college time by learning in-demand skills



Graduate

Time for you to upskill, prepare yourself for a bright future, and kickstart a career



College Dropout/Job Seeker

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



Freelancer

Whether you are a freelancer or looking to launch your career master the technology to get expertise.



Looking to Switch Career

Not Satisfied with current job profile? Explore a easy-to-learn, most impressive and high-paying skill.



Why Learn **Generative AI** With **Upflairs** Only?



Trusted by Learners

Our training and support system intrigue learners.



Expert Trainers

Professional Trainers having experience of delivering more than 30k students. We ensure the high quality training always aimed at career building.



Completely Practical-Oriented

We offer 100% practical training with regular assessment, assignment and projects.



Industry-Recognized Certification

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



Online & Offline Batches

You can upskill yourself from anywhere by joining our live training batches. Also we provide classroom training in Jaipur.



Career Assistance

We help you build a great career as a developer. Our team offers you career guidance, prepares you for interview, and assists you in finding job.



Hands-On Projects

You will get to work on multiple projects during the training so that you can gain some experience.



Comprehensive Curriculum

The course includes most comprehensive Curriculum, covering all breadths and depths in detail.

Generative AI		
Duration – 72 Hours		
Week 1 (12 Hours)	Introduction	<ul style="list-style-type: none"> • Introduction with AI & Machine Learning • Data Science V/s Data Engineering V/s Data Analysis vs AI • Use of Data in the world of Data Science and machine learning • Connecting with Upflairs Community • Basic Linux/Windows Commands • Setting Up GitHub & Google Colab/Kaggle
	Python	<ul style="list-style-type: none"> • Command line & Script based Python Programming • Python Quicker Keywords, Data Types, Operators • Conditional/Looping/Error Handling in Python • Python User Defined Functions • Lambda Expressions and enumerate function • Python Modules: Usage and Installation • Understanding the OOP of Python • Classes, Objects, Methods • Inheritance: Its types – Single , Multiple and Multilevel
	Capstone Project	Project 1: CLI-Based Chat Application
	Git & GitHub	<ul style="list-style-type: none"> • Understanding GitHub, repositories, commits, branches • Creating and managing repositories • Cloning, pushing, pulling, and merging changes • Resolving merge conflicts, forking, and pull requests
	Deep learning	<ul style="list-style-type: none"> • Introduction to Deep Learning & Neural Networks • Basics of ANN (Artificial Neural Networks)
Week 2 (12 Hours)	Deep learning	<ul style="list-style-type: none"> • Terminology: Layers, weights, biases, activation functions, losses, optimizers, learning rate • Forward & Backward Propagation • Using Keras Library for ANN • Building and Compiling Sequential Neural Networks
	Image Processing	<ul style="list-style-type: none"> • Introduction to Image Processing • Applications of Image Processing • Image Representation: Pixels, bit-depth, grayscale vs. color images • Introduction to OpenCV and PIL (Pillow)
	Image Processing	<ul style="list-style-type: none"> • Image manipulation: Scaling, translation, rotation, flipping, resizing, cropping • RGB to Grayscale conversion • Histograms and Histogram Equalization • Erosion, Dilation, and object shape filtering
Week 3 (12 Hours)	Computer Vision with CNN	<ul style="list-style-type: none"> • Introduction to Computer Vision • Real-world use cases of Computer Vision • Understanding CNN (Convolutional Neural Networks) • Filters, activation functions, pooling layers, flatten layers • CNN architecture and image feature extraction • Image classification and transfer learning • Object detection: Localization using Yolo.

	Mini Project	Project 1: <ul style="list-style-type: none"> <i>Dog cat image classification</i> <i>image search project</i>
Week 4 (12 Hours)	Mini Project	Project 1: <ul style="list-style-type: none"> <i>Sign language detection</i> <i>Leaf Disease detection yolo</i> <i>Flower image classification</i>
	Natural Language Processing	<ul style="list-style-type: none"> Introduction to NLP? Linguistic to Natural Language! NLTK in Python for Text Processing Text to Speech and Speech to Text Modules in Python Optical character recognition (OCR): Text recognition. Generating Word Clouds
Week 5 (12 Hours)	Natural Language Processing with RNN	<ul style="list-style-type: none"> Introduction to RNN How RNN is different from ANN Types of RNN Text cleaning steps, stemming and lemmatization, tokenization, stop words, pos tagging. Bag of words, tfidf, embedding layer. The Concept of Long-Short-Term Memory (LSTM) LSTM-based Neural Networks for Future Prediction!! GRU.
Week 6 (12 Hours)	Generative AI (4 Hours)	<ul style="list-style-type: none"> Introduction to Generative AI? Real-world applications of Generative AI Encoder and Decoder-based Architectures Building a Language Translator using LSTM Introduction to LLM (Large Language Models) Working process of LLM models Transformers Architecture BERT and GPT model architecture Named Entity Recognition (NER) and Text Summarization using pre-trained models
	Capstone project	Project 2: <ul style="list-style-type: none"> <i>Stock price prediction</i> <i>Language Translation</i> <i>NER extraction and Text summarization using a pre-trained model</i> <i>Text generation AI model from scratch</i>

NIT,
Jalandhar

Glance Upflairs

Delhi Technical
University

NIFFT,
Ranchi

Banasthali
Vidyapith

JECRC,
Jaipur

Arya College,
Jaipur

Poornima
College,Jaipur

SKIT,Jaipur



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