Diploma in Artificial Intelligence

Get International Jobs

100,000+ Students have been Trained

since 1997

Who can do?

- The candidate who would like to pursue their career in the field of Artificial Intelligence, Deep Learning and Big Data Analytics
- Intermediate, University students and professionals Candidates
- Freelancers and entrepreneurs seeking skills to develop products and services to fulfill future industry demands.
- Professionals other than Information Technology can also Join
- People who are working in the software development domain, they would also join improve their knowledge and secure their job.
- Senior Managers, Programmers, Analysts, and other professionals, who would like to enhance their skills.

Invest in People the only Asset that Appreciates

Program is offered by

3D EDUCATORS - INT

22 Years of Excellence in Training & Development

🌐 www.3dedudcators.com
✉ info@3deducators.com

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Table of Content

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About the Program & Instructor

Artificial intelligence will define the brand new approach towards the businesses by the government or private organizations and life of individuals. A quick and softer definition of Artificial Intelligence would be, "augmenting human skills and intelligence" It applies to almost all walks of life, whether it's about home automation, recognizing human faces, or performing complex tasks like medical diagnosis through medical scans or sounds. Artificial Intelligence is not to replace existing systems directly but to improve inputs and outcomes of these legacy systems and where required introduce new tools for further improvements. Simple goals of AI would remain a) Intelligent Automation of the Processes b) Minimize Costs c) Maximize Productivity & Efficiency d) Improve Margins and Profitability.

Inauguration

The Training Program shall be inaugurated by a senior member of 3DEducators and President of 3D Group.

Program Structure

No of classes per week	**02 - Class**
Duration of each class	**03 – Hour**

Other Learning Activities For Each Module

Classroom Assignments	**10**
Presentations by Trainees	**02**
Case Studies	**06**
Project	**01**

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LEARNING OUTCOMES.

At the conclusion of the course, students should be able to:

- Establish a firm understanding of the concepts of Artificial Intelligence and related technologies.
- Identify rooms for improvement in processes across the organization.
- Ability to conceive a use case in his/her job role or identify a fit case scenario in his/her organization.
- Using tools and knowledge provided during the course be able to develop a functional chatbot using the power of Natural Language AI in conjunction with Sound AI
- As an entrepreneur identify a business use case or as an employee discover organization need and to automate a certain task to minimize cost and maximize efficiencies, design, and develop machine learning models to detect various types of objects and take appropriate action according to the requirements.
- As a marketer or researcher develop algorithms to analyze social media messages and posts.
- Develop models and algorithms for realistic sales forecasting or HR turnover.

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This course will enable candidates to step into the future by learning cutting edge and revolutionary technologies today. Candidates will learn the fundamentals of artificial intelligence, machine learning, and deep learning and develop various skills throughout the duration of the course and improving their concepts accordingly. Various close to real-life use cases will be introduced to the candidates for a more realist and practical approach. For hands-on learning, candidates will understand writing program units to manage data, writing specialized machine learning algorithms to train the models for selected use cases, collecting and organizing data, test their models, and finally build applications to use trained models. Candidates will be introduced to tools and kits helping in quickly developing and testing their models. Towards the end of the course, candidates will be able to write their intelligent chatbot, develop models to identify different types of objects, and perform text classification. The focus in the treatment of these topics will be on breadth, rather than depth, and emphasis will be placed on the integration and synthesis of concepts and their application to solving problems. To make the learning contextual, real datasets from a variety of disciplines will be used.

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Program Syllabus

If Data is the new Oil, then Artificial Intelligence is the Spaceship to take you to Knowledge Planet. The world is embracing Artificial Intelligence fast so do you have to it, do it now to bring positive, efficient, and productive change to your life and living, your way of doing business, your approach towards solving a problem. Seeking a decent career job locally or abroad, or securing your position in an organization, or if you are a set software development business or a startup, get equipped with the latest tools and technologies.

This training will equip you, all the tools and kits required to learn Artificial Intelligence, our seasoned and well-experienced trainers will provide every essential training and knowledge required to lead in pursuit of absolute Artificial Intelligence knowledge challenge. Get on board with 3deducators.com to make a place for yourself on this platform and world of data sciences

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Introduction to Artificial Intelligence & Machine Learning

Driven by the combination of increased access to data, computational power, and improved sensors and algorithms, artificial intelligence (AI) technologies are entering the mainstream of technological innovation. These technologies include search, machine learning, natural language processing, robotics, and image processing.

In this course, you will learn what Artificial Intelligence (AI) is, explore use cases and applications of AI, understand AI concepts, and terms like machine learning, deep learning, and neural networks.

You will be exposed to various issues and concerns surrounding AI such as ethics and bias, & jobs, and get advice from experts about learning and starting a career in AI. You will also demonstrate AI in action with a mini-project.

This course does not require any programming or computer science expertise and is designed to introduce the basics of AI to anyone whether you have a technical background or not.

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Developing a Chatbot

Driven by the combination of increased access to data, computational power, and improved sensors and algorithms, artificial intelligence (AI) technologies are entering the mainstream of technological innovation. These technologies include search, machine learning, natural language processing, robotics, and image processing.

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Introduction to Object Detection in Deep Learning

Computer vision is an interdisciplinary field that has been gaining a huge amount of traction in recent years. Object detection is a basic part of computer vision used for vehicle detection, person detection, surveillance, etc. Thanks to deep learning! Every year, new algorithms/ models keep on outperforming the previous ones.

Objection detection = Classification + Localization

Image Classification:

Image classification is the task of finding a mapping between images and labels. In Image classification, we send an image as an input to the network and predict the output depending on the pre-trained labels and categorize the object in an image. For example, when we build a cat-dog classifier, we took images of cats or dogs and predicted their class.CNN's are used for image classification tasks.

If you want to classify both cat and dog which are present in the same image, we can train a multi-label classifier that will predict both the classes (dog as well as the cat).

Localization in an image:

The task of object localization is to predict the object in an image as well as its boundaries. Object localization aims to locate the main (or most visible) object in an image while object detection tries to find out all the objects and their boundaries.

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Developing a Forecasting Model

AI found applications in the field of forecasting and a considerable amount of research has been conducted on how a special class of it, utilizing Machine Learning methods (ML) and especially Neural Networks (NNs), can be exploited to improve time-series predictions.

The forecast is the output of an algorithm after it has been trained on a historical dataset and applied to new data when forecasting the likelihood of a particular outcome, such as whether or not a customer will churn in 30 days. The algorithm will generate probable values for an unknown variable for each record in the new data, allowing the model builder to identify what that value will most likely be.

Machine learning model predictions allow businesses to make highly accurate guesses as to the likely outcomes of a question based on historical data, which can be about all kinds of things – customer churn likelihood, possible fraudulent activity, and more. These provide the business with insights that result in tangible business value. For example, if a model predicts a customer is likely to churn, the business can target them with specific communications and outreach that will prevent the loss of that customer.

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Introduction to Text Classification

Text classification is the process of assigning tags or categories to text according to its content. It's one of the fundamental tasks in Natural Language Processing (NLP) with broad applications such as sentiment analysis, topic labeling, spam detection, and intent detection.

Unstructured data in the form of text is everywhere: emails, chats, web pages, social media, support tickets, survey responses, and more. Text can be an extremely rich source of information, but extracting insights from it can be hard and time-consuming due to its unstructured nature. Businesses are turning to text classification for structuring text in a fast and cost-efficient way to enhance decision-making and automate processes.

Let's explore, what is text classification? What are the most common business applications?

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TERMS & CONDITIONS

WITHDRAWAL FROM THE CERTIFICATION OR DIPLOMA
Students are not allowed to withdraw from the CERTIFICATION/DIPLOMA. If a student cannot continue the CERTIFICATION his/her fee will be forfeited.

CONDUCT AND DISCIPLINE
A disciplinary action, leading to rustication, will be taken against students whose conduct is found objectionable at any time during the course of study. Reference will be made to 3D Educators code of conduct.

EVALUATION AND GRADING
The performance of students is evaluated through continuous observation of a student's performance in the CERTIFICATION/DIPLOMA – class participation, submission of assignments, quizzes and exercises.

The student will be examined through three hourly exams conducted at the midterm and a final exam at the end of the program. Total marks for passing the CERTIFICATION/DIPLOMA will be 70 out of a total of 100.

Students who do not meet the attendance or any other eligibility criteria will not be allowed to appear in the final examination.

The following grading plan will be applicable for the CERTIFICATION/DIPLOMA:

A	B+	B	C+	C	F
87-100	81-86	72-80	66-71	60-65	Below 60

Students who are unable to appear for the final exam are required to submit a written application stating the reason for not appearing for the exam. 3D Educators reserves the right to approve or deny such applications. If approved, the student will be allowed to sit for the exam within one month. Failure to do so, the student will be resubmit the examination fee and sit the future schedule exam. Without passing of the exams no certification will be awarded.

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ONLINE LIVE CLASSES FACILITY AVAILABLE

- Instructor Led Training
- Real Time Presentations
- Interactive Classes
- Complete Notes and Other Stuff shall be provided through our Secure Student Login Member's Area
- For Online Live Classes, you may please download the Admission Form through our website http://www.3deducators.com. Fill it properly and attached the required document along with Picture and send back to info@3deducators.com with scanned fee submitted voucher in the bank.
- For Pakistan you may submit the fee at any MCB Branch with the title of "3D EDUCATORS-TRAINERS & CONSULTANTS".
- If you are outside Pakistan then you may transfer via Bank to Bank or any western union, Fast Track, Money Gram or else International Transfer Body.
- After Admission, if you don't have GMAIL Account then you are requested to kindly make one GMAIL Account and shared it info@3deducators.com. Then further correspondence shall be made by our institute official.
- Extra Bandwidth Charges shall be incurred.

DISTANCE NOT MATTER

You can join in the live classes Sessions of 3D EDUCATORS – TRAINERS & CONSULTANTS from anywhere of the world.

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PRECAUTIONARY MEASURES

- During Classes, you are requested to make sure that you are in isolated room, where no noise should be there except your voice.

- Kindly Switch Off your Cell Phone during the class, because it will disturb the quorum of class.

- If you have taken the admission in the course online lonely, then ethically it is recommended and suggested that you alone in the class.

- Recording of Lectures are not allowed at your end.

This world is emerging and growing in the 21st Century very rapidly because of latest and remarkable technologies and its advancement. Due to advancement of technology, we 3D EDUCATORS offer Live Interactive class sessions

3D EDUCATORS believe on Information Technology and its systems. Now you can also avail this facility at your home.

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