

• About the Course:

 In this course, the participants will learn deep artificial neural networks (ANN) basics to its different branches convolutional neural network (CNN) for computer vision, LSTM (Long short-term-memory) for NLP (natural language processing) to mathematics (linear algebra & calculus) and Python (basic to advanced) to implement deep neural network libraries like TensorFlow, PyTorch and API (Application programming interface) like keras.

• About the Trainers:

• A Team of Trainers with 30+ years of overall combined industry experience And 8 years on AIML. Currently working on AI & data science related projects.

• What is the prerequisite?

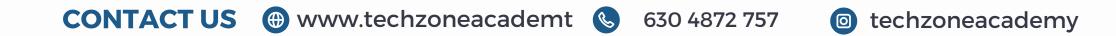
• Basic computer knowledge, good in math (12th class), passion to build intelligent systems to solve real-world problems.

Education Qualification?

Any Graduate/Engineer with a math background

Duration





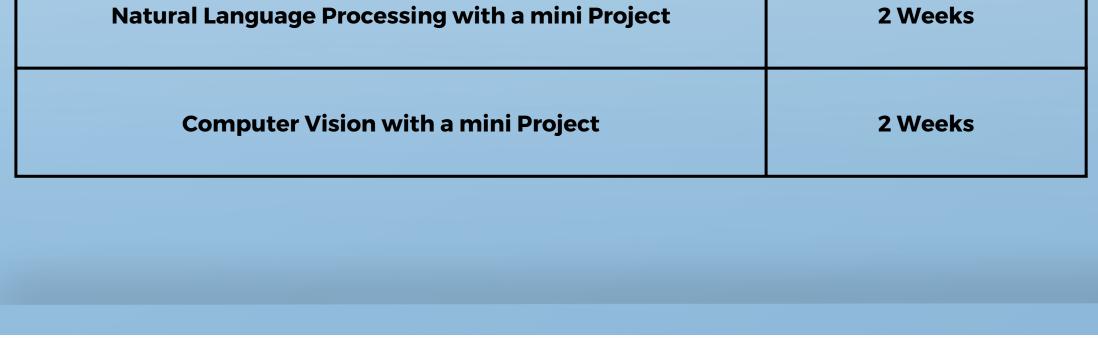


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Topics

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Introduction to AI (Artificial intelligence)	
Programming (Python) for Al	6 Weeks
Mathematics for AI	1 Week
ML (Machine Learning) - a branch of Al	2 Week
Deep Learning - a subfield of ML	2 Weeks
• Getting started With Cloud Al on Cloud	1 Week
Natural Language Processing with a mini Project	2 Weeks



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• Topics

Details

Introduction to AI	Introduction History, Why? How? Real-time Examples of AI	
Programming for AI	Cetting Started with Python Python Intermediate Numpy Python Advanced RegEx OOPs Lambda Databases	
Mathematics for AI	 Linear Algebra Calculus Fundamental Statistics Advanced Calculus Numerical Optimisation 	
Machine Learning	 Machine Learning Supervised Learning Unsupervised Learning Reinforcement Learning Linear Regression Logistic Regression Polynomial Regression Multiple Regression Classification Prediction Algorithms Support Vector Machines (SVMs) Tree Models Naive Bayes Model Principal Component Analysis Clustering Boosting Time Series 	

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• Topics

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• • • • •	Deep Learning	Deep Learning O Architecture Neural Networks Multi Level Perceptron
•••	• • • • • •	 Convolutional Neural Networks Recurrent Neural Networks
		Professional AI
	Getting started With Cloud	 AWS Fundamentals and Services Azure Fundamentals and Services
		Natural Language Processing Introduction Exploring NLP Libraries NLTK SPACY
		GENSIM KERAS RASA REGEX
	Natural Language Processing	 SCIKIT LEARN Python text files PDF and regular expressions Tokenization Stemming
		 Lemmatization stop words Phrase Matching and Vocabulary Topic Modeling Latent Dirichlet Allocation Overview Non-negative Matrix Factorization Text Blob TextBlob Introduction

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• Topics

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Natural Language Processing	 Finding a polarity of a string with TextBlob Sentiment analysis with TextBlob Measuring language subjectivity with TextBlob and Python Language Translation with Python Module TextBlob extBlob nGrams Spacy Concepts and Parameters and Interacting with Chatbot Bonus: Discovering NLP on Cloud (AWS, Azure and Google Cloud Platform
	 Computer Vision Introduction OpenCV Introduction to the Library Image Processing for Computer Vision
	 Linear Image Processing Model Fitting Frequency Domain Analysis Camera Models and Calibration
Computer Vision	Camera Views Camera Models Camera Calibration Stereo Geometry
	Image Motion Image Classification Photometry Optical Flow Tracking Parametric model Useful Libraries Recognition Generative Models Discriminative models

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	 Finding a polarity of a string with TextBlob Sentiment analysis with TextBlob
	 Measuring language subjectivity with TextBlob and Python Language Translation with Python Module TextBlob
Computer Vision	, • extBlob nGrams Spacy • Color spaces and Segmentation • 3D perception • Binary Morphology • Bonus: Computer Vision On Cloud (AWS, Azure and Google Cloud Platform) • Bonus: Discovering NLP on Cloud (AWS, Azure and Google Cloud Platform
Mini projects	 Auto Attendance through Facial recognition Chatbots Voice to text processing OCR on Cloud.



