

Details of the Course

Name of The Course: Industrial training and internship in Artificial Intelligence(AI)

Duration (in Hrs.): 60(6 weeks)
Fee (in Rs.): Rs 2974/Eligibility: Diploma/B.Sc./B.Tech/ In Electronics, Electrical, Instrumentation
Engineering, Computer Science, IT or its equivalent/BCA/MCA. (Completed or Pursuing).
Prerequisite: Knowledge of basics Python programming and Python packages for

Machine Learning

Contact No.: 6287942205

Email ID: ankit@nielit.gov.in

Apply Online: http://nielitpatnaonline.in/onlinecourse/Certificate Course.php?fbclid=IwAR3a0xB-VpOGOnUhGwfQSdPuDrQvsIRr56stjObTfKq8YN3PUJGEEC1qqek

Course Content:

Sl	Торіс	Subtopic	Duration(in
.No		_	Hrs)
1	Fundamentals of AI & Machine Learning	Introduction to machine learning and	10
		AI, AI Terminology, The Necessity	
		of Learning AI, Goals and	
		applications of AI, AI issues,	
		concerns and Ethical AI, AI future,	
		Generative AI, Prompt Engineering	
2	Statistics for AI	Basics of Statistics, Statistics, and Its	10
		types, Numerical and Categorical	
		data, Descriptive Statistics,	
		Qualitative and Quantitative Data,	
		Measure of Central Tendency (Mean,	
		Median and Mode), Measure of	
		Positions (Quartiles, Deciles,	
		Percentiles and Quantiles), Measure	
		of Dispersion (Range, Median,	
		Absolute deviation about median,	
		Variance and Standard deviation, Z-	
		score, Covariance, Correlation	
		Coefficient, Measure of Distribution	
		(Skewness and Kurtosis)	
3	Machine learning	Data Preparation, Dataset, Data	10
		Preprocessing, Outlier detection,	
		Missing value imputation, Encoding,	
		Categorical Data, Splitting Data,	
		Feature scaling Introduction to	

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		Supervised Learning, Unsupervised	
		learning, , Regression and	
		Classification, Regression	
		Algorithms Simple Linear	
		Regression, Decision Tree,	
		Classification Algorithms, Logistic	
		Regression, KNN, Clustering	
4	Deep Learning	Neurons, Neural Networks,	10
		Activation Functions & their Types,	
		Gradient Descent, Backpropagation,	
		Artificial neural networks,	
		Convolutional Neural Networks,	
		Image classification, Text	
		classification	
5	Computer Vision	Computer Vision, Installing	10
		Useful Packages, OpenCV, Reading,	
		Writing, and Displaying an Image,	
		Preprocessing and Image analysis,	
		Colour Space Conversion, Image	
		Thresholding, Object Detection,	
		Image Segmentation, Face Detection,	
		Eye Detection, Deep Learning for	
		computer vision, YOLO	
6	Natural Language Processing	Natural Language, Natural Language	10
		Processing - Problems and	
		perspectives, Corpus, Text Analytics,	
		Tokenisation and Sentence splitting,	
		Stemming, Lemmatization, Feature	
		Extraction, Sentence Segmentation,	
		NLTK, Text Classification,	
		Semantics and Sentiment Analysis,	
		Deep Learning for NLP	
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