ARTIFICIAL INTELLIGENCE COURSE DETAILS

- GET ACCESS TO GLOBAL OPPORTUNITIES

FEEDNET
Software Training

- **MODULE 1**
  - Statistics
  - VisualizationTool
- **MODULE 2**
  - Python
  - Advanced Libraries
- **MODULE 3**
  - Machine Learning
  - Natural Language Processing(NLP)
- **MODULE 4**
  - ComputerVision
  - Deep Learning
  - RealTimeAI Project

DETAILED CURRICULUM

OPEN TO STUDENTS FROM ANY DEPARTMENT

STATISTICS

- Introduction to Statistics
- Sample vs. Populationdata
- Descriptive Statistics
- Types of data
- Levels of Measurement
- Measures of CentralTendency
- Measure ofAsymmetry
- Measure ofVariability
- Inferential Statistics
- Distributions
- Estimators and estimates Confidence Intervals HypothesisTesting

VISUALIZATION TOOL

- Installation Steps
- Architecture
- Supporting Data Sources
- Overview of theTool
- Data ModelingTechniques
- Dashboard Overview
- Overview onVisualizationTiles Introduction to DAX query to Python

PYTHON

- Overview on IDE
- Data types inPython
- Conditional statements andloops
- Functions, Modules &Packages
- Object Oriented Programmingconcepts
- File handling concepts
- Exception handlingconcepts
- Overview on RegularExpressions Advanced Libraries suchas:
- Numpy Pandas
- Scipy
- Matplotlib

MACHINE LEARNING

- Introduction to MachineLearning
- Life cycle of machine learning
- Gathering Data
- Data Preparation
- Analyze Data
- Train Model
- Test Model
- Deployment
- Data Pre-processingTechniques
- Supervised vs. Unsupervisedlearning
- Supervised Learning
- ClassificationVs Regression Models
- Classification Models
- Supervised Learning
- ClassificationVs Regression Models
- Classification Models
- Logistic Regression
- K- NearestNeighbours
- SupportVector
  - Kernel SVM

- DecisionTree Classification
- Random ForestClassification
- Techniques to evaluate
- Classificationmodel performance
- Regression Models
- Linear Regression
- Multiple LinearRegression Polynomial
- Regression
- SupportVector Regression
- DecisionTree Regression
- Random ForestRegression
- Techniques to evaluate Regressionmodel performance
  UnSupervised Learning
- Clustering:
- K- MeansClustering Hierarchical
- Clustering Association Rule Learning:
- Apriori
- Eclat
- Dimensionality ReductionTechniques
- Model SelectionTechniques

NLP

- Introduction to NLP
- Overview on NLTKand Spacy Libraries
- Overview on word embeddingtechniques
- Topic ModelingTechniques
- SentimentAnalysis

COMPUTER VISION

- Introduction to ComputerVision
- Overview on OpenCV library
- Read Load and Save Image
- Pixel and Area Manipulation
- Drawing lines and Rectangles
- ImageTransformation
- Can edge detection Face detection
- Real time facial expression recognition
- Overview on Optical CharacterRecognition Object detectiontechniques

DEEP LEARNING

- Introduction to Deep Learning
- Artificial Neural Networks
- Overview on Activationfunctions
- Overview on lossfunctions
- Overview on Gradient Descent and itstypes
- Introduction to Convolution Neural
- Networks
- Architecture
- Stride, Pooling, Paddingtechniques
- Case Study
- Introduction to Recurrent Neural Networks
- Architecture Case Study
- Introduction to Long Short-Term Memory
- Architecture
- Case Study
- Overview of Back Propagation
- Introduction to Keras framework – Case Study
- Introduction toTensorflow framework – Case
- Study

REAL TIME PROJECTS

- AI CHAT BOT
- This involves development of computer program that is capable of conducting a conversation via textmessages.
- Advantages:
- Reduces Man PowerCost
- Available 24*7

COURSE OUTCOME

- This AI course is both informative and powerful enough to enable studentsfor starting their grossing career in Artificial Intelligence.

FEEL FREE TO CONTACT US IN CASE OF ANY QUERIES

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