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Artificial Intelligence Course Syllabus

Module 1: Introduction to Data Science

What is Data Science?
What is Machine Learning?
What is Deep Learning?
What is AI?
Data Analytics & its types

Module 2: Introduction to Python

What is Python?
Why Python?
Installing Python
Python IDEs
Jupyter Notebook Overview

Module 3: Python Basics

Python Basic Data types
Lists
Slicing
IF statements
Loops
Dictionaries
Tuples
Functions
Array
Selection by position & Labels

Module 4: Python Packages

Pandas
Numpy
Sci-kit Learn
Mat-plot library



Module 5: Importing Data

Reading CSV files
Saving in Python data
Loading Python data objects
Writing data to csv file

Module 6: Manipulating Data

Selecting rows/observations
Rounding Number
Selecting columns/fields
Merging data
Data aggregation
Data munging techniques

Module 7: Statistics Basics)

Central Tendency Mean
Median
Mode
Skewness
Normal Distribution

Probability Basics

What does mean by probability?

Types of Probability
ODDS Ratio?

Standard Deviation

Data deviation & distribution
Variance

Bias variance Trade off

Underfitting
Overfitting

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Distance metrics

Euclidean Distance
Manhattan Distance

Outlier analysis

What is an Outlier?
Inter Quartile Range
Box & whisker plot
Upper Whisker
Lower Whisker
Scatter plot
By Cooks Distance

Missing Value treatment

What is a NA?
Central Imputation
KNN imputation
Dummification

Correlation

Pearson correlation
Positive & Negative correlation

Module 8: Error Metrics

Classification

Confusion Matrix
Precision
Recall
Specificity
F1 Score

Regression

MSE
RMSE
MAPE

The logo for FSSM (Future Skills Society of Management) features the letters 'FSSM' in a large, bold, blue, sans-serif font. The letters are slightly shadowed, giving them a 3D appearance. The 'F' and 'S' are connected at the top, and the 'M' is positioned to the right of the second 'S'. The background behind the letters is a light blue gradient with some abstract, wavy shapes.

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Module 9: Machine Learning Supervised Learning

Linear Regression Linear Equation

Slope

Intercept

R square value

Logistic regression

ODDS ratio

Probability of success

Probability of failure Bias Variance Tradeoff

ROC curve

Bias Variance Tradeoff

Unsupervised Learning

K-Means

K-Means ++

Hierarchical Clustering

SVM

Support Vectors

Hyperplanes

2-D Case

Linear Hyperplane

SVM Kernal

Linear

Radial

Polynomial

Other Machine Learning algorithms

By Nearest Neighbor

Naïve Bayes Classifier

By Decision Tree CART

By Decision Tree C50

Random Forest

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Module 10: ARTIFICIAL INTELLIGENCE

AI Introduction

Perceptron

Multi-Layer perceptron

Markov Decision Process

Logical Agent & First Order Logic

AL Applications

Module 11: Deep Learning Algorithms

By CNN Convolutional

By RNN Recurrent

By ANN Artificial Neural Network

Introduction to NLP

Text Pre-processing

Noise Removal

Lexicon Normalization

Lemmatization

Stemming

Object Standardization

Text to Features (Feature Engineering)

Syntactical Parsing

Dependency Grammar

Part of Speech Tagging

Entity Parsing

Named Entity Recognition

Topic Modelling

N-Grams

By TFIDF

Frequency / Density Features

By Word Embeddings

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Tasks of NLP

Text Classification

Text Matching

Levenshtein Distance

Phonetic Matching

Flexible String Matching



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ABOUT US

Who We Are:

We the FSM have remained a premier provider of business transformational solutions, assisting our valuable clients to completely revolutionize their customer management activities. Backed by extensive experience with similar architectures, we are skilled at anticipating potential risks and developing risk mitigation plans. Successful planning and implementation of an enterprise-level contact center and UC project deliveries has our track record. What sets us apart from the competition and makes us an ideal partner for your support requirements? – It is the pursuit of excellence in providing:

- Enhanced Technical Capabilities
- Experience and Proven Success
- Reduced Costs

Why Consulting Us?

As a leading institution for IT network training in the country, headquartered in Bangalore, we started our program in the year 2014. The center has been providing training across multiple CISCO systems including Security, Collaboration, Routing & Switching, Data Center, Wireless, Service Provider, UCCX, UCCE, CVP ETC, and Microsoft Skype for Business 2015. The labs, equipped with the latest technology hardware equipment, are open around the clock for the students.

We provide the most sought after programs in IT – the prestigious Cisco powered Unified Communication (Cisco Spark & Microsoft Skype for Business), and CCIE training and

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Certification. The training provides holistic knowledge and practical experience resulting in creating the best engineers in networking industry.

Our pool of certified trainers with a total of 25+ years of industry experience has been proved efficient and successful time and again by the numbers of students placed. We maintain uncompromised commitment of ensuring that every student is job-ready at the end of the course.

