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Science Focuses on Algorithms

Data

Become Data Scientist







About us:

More than 20+ YrS. Experience Trained More Than 1Lakh Students Largest Infrastructure in Delhi/NCR

Focus on JOD Placement

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MACHINE LEARNING

1. Course Overview

- Overview of Data Science
- What is Data Science
- Different Sectors Using Data Science

2. Data Anaytics Overview

- Exploratory Data Analysis(EDA)
- EDA-Quantitative Technique
- EDA Graphical Technique
- Data Analytics Conclusion or Predictions
- Data Types for Plotting
- Data Types and Plotting

3. Mathematical Computing with Python (NumPy)

- Introduction to Numpy
- Activity-Sequence
- Creating and Printing an ndarray
- Class and Attributes of ndarray
- Basic Operations
- Activity Slicing
- Copy and Views
- Mathematical Functions of Numpy
- Advance Slicing
- Transpose and arance
- Searching

4. Scientific Computing with Python (SciPy)

- Introduction of SciPy
- SciPy Sub Package Integration and Optimization
- SciPy sub package
- Demo Calculate Eigenvalues and Eigenvector
- Demo Calculate Eigenvalues and Eigenvector

5. Data Manipulation with Pandas

- Introduction of Pandas
- Data Types in Pandas
- Understanding Series
- Understanding DataFrame
- View and Select Data Demo
- Missing Values
- Data Operations
- File Read and Write Support
- Pandas SQL Operation

6. Python for Data Visualization-Matplotib

- Introduction to Matplotlib
- Matplotlib Part 1 Set up
- Matplotlib Part 2 Plot
- Matplotlib Part 3 Next steps
- Matplotlib Exercises Overview
- Matplotlib Exercises Solutions

7. Machine Learning with Python

- Linear Regression
- Linear Regression Theory
- Logistic Regression
- Logistic Regression Theory Introduction
- Logistic Regression with Python
- K Nearest Neighbours
- KNN with Python
- KNN Project Overview and Project Solutions
- Decision Trees and Random Forests
- Support Vector Machines
- SVM Theory
- Support Vector Machines with
 Python
- K Means Clustering
- K Means with Python
- Principal Component Analysis
- PCA with Python
- Natural Language Processing

DEEP LEARNING

1. Introduction

- What is neural network ..?
- How neural networks works?
- Gradient descent
- Stochastic Gradient descent
- Perceptron
- Multilayer Perceptron
- BackPropagation

2. Keras Installation & API

- Installing Keras
- Getting started with Keras architecture
- An overview of predefined activation functions
- Some useful operations
- Saving and loading the weights and the architecture of a model

3. Activation Functions

- Activation functions
- What are activation functions?
- Sigmoid function
- hyperbolic Tangent function
- ReLu -Rectified Linear units
 Softmax function

4. Tenserfow Basics

- What is Tensorflow ?
- Intallation of Tensorflow
- Placeholders in Tensorflow defining placeholders feeding placeholders with data
- Variables,Constant
- Computation graph
- visualize graph with Tensor Board
- MLP digit Classifier using Tensorflow

5. Power BI & Tableau 6. My SQL DataBase

Performing sentiment analysis of IMDb movie reviews Classifying Cats vs Dogs with a Convolutional Neural Network (CNN)

- 7. Feed-Forward Neural Networks with TensorFlow
- Feed-forward neural networks (FFNNs)
- Implementing Feed-forward neural networks (FFNNs)
- Implementing a multilayer perceptron (MLP)
 Tunning FFNNs hyperparameters

• Regularizing a neural network with

Convolutional Neural Networks

Train a simple convolutional neural

Design a convolutional layer

Understanding and visualizing a CNN

10. Introduction Recurrent Neural

What are Recurrent Neural Networks

Understanding a Recurrent Neuron in

Long Short-Term Memory(LSTM)

Implementation of RNN in Keras

· Vanishing and Exploding Gradient

8. Tuning of Hyperparameters

Regularization & Overfitting

Network Weight Initialization

9. Clasifying Images with

Vanishing gradients

Introduction to CNN

Pooling layer in CNN

Networks (RNN)

application

(RNNs)?

Problem

Detail

dropout

net

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