

Welcome To Digital Lync

Digital Lync empowers technology seekers by providing world class infrastructure, best quality project based technology education, Research and Development of great products and supports enthusiastic new entrepreneurs.



Data Science

Data Science is a multi-disciplinary technology which combines statistics, mathematics and information science to derive meaningful insights from data.

APPROPRIATE FOR PEOPLE WITH

- Good Analytical & Logical Abilities
- Inclination & Appreciation for Mathematics
- Good Programming Skills

Why Data Science

Data Science has a huge impact in the field of industries and is likely to cover one-third of the global IT market.
All the organizations small or big are wrangling for employees with knowledge of data synthesis to obtain, explore, model and interpret.

CAREER

SCOPE

Data Scientist
Data Architect
Data Analyst
Decision Scientist
Applied Scientist



Data Science - Curriculum

- Course is offered (strongly recommended) with Python, QUICK FACTS: • This is DS component of [DS+ Python] combo---60 hours

 - 4 case studies
 - 2 projects
 - Class room notes

Module 1:

FOUNDATIONS:

- Introduction
- High level view of DS, AI & ML
- Subtel differences between DS, ML & AI
- Approaches to ML
- Terms & terminologies of DS
- Ideas of Pipe line, implementation cycle
- **Statistics**

STATISTICS:

- MCT
- Dispersion
- Scatter plot
- Box whisker plot

MODULE-2:

SUPERVISED LEARNING:

CLASSIFICATION METHODS

- K-nn
- Naive Bayes
- SVM
- Decision trees

REGRESSION

- Linear Regression
- Logistic Regression (effectively, classification only)

UNSUPERVISED LEARNING:

CLUSTERING

- K means
- Association Rules(market basket analysis)

END OF Module 2

MODULE-3:

ELEMENTARY IDEAS OF TIME SERIES:

TEXT ANALYTICS

- NLP
- TF-IDF
- SENTIMENT ANALYSIS
- RECOMMENDER SYSTEMS
- RANDOM FORESTS

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MODULE-4:

NEURAL NETWORKS & DEEP LEARNING TECHNOLOGIES:

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- NN & terminologies
- Non linearity problem, illustration
- Perceptron learning
- Back propagation

ADDITIONAL RELEVANT MATHEMATICS

- Gradients
- Partial derivatives
- Linear algebra
 - Li
 - LD
 - Eigen vectors
 - Projections

VECTOR QUANTIZATION:

OVERVIEW OF

- Tensor Flow
- Keras
- theano

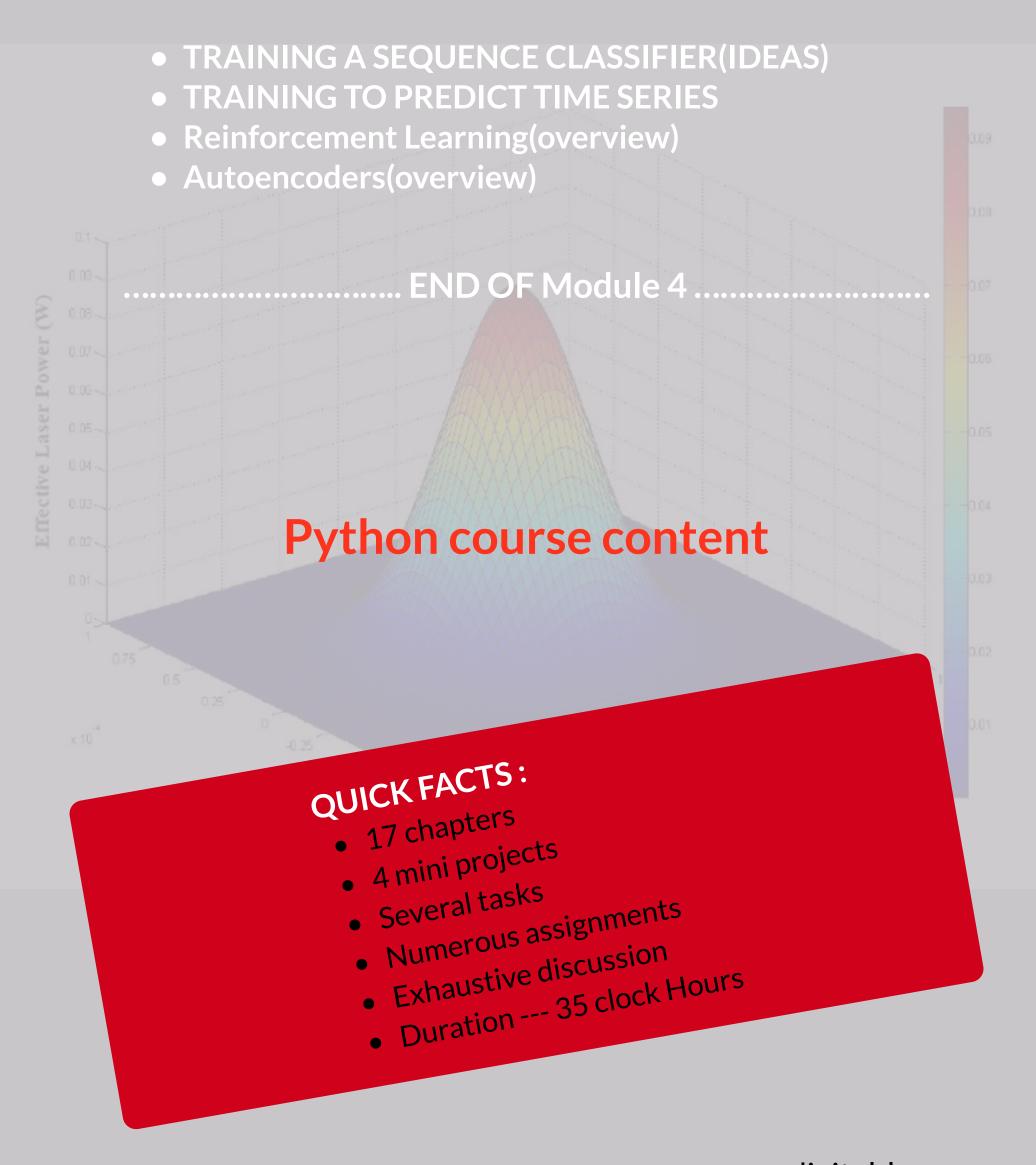
DEEP LEARNING WITH CONVOLUTIONAL NEURAL NETS

- Architecture of CNN
- Types of layers in CNN
- filters
- Building an Image classifier with and without CNN

RECURRENT NEURAL NETS:

FUNDAMENTAL NOTIONS & IDEAS

- Recurrent neurons
- Handling variable length sequences



- INTRODUCTION
- VARIABLES AND DATA TYPES
- CONDITIONAL STATEMENTS
- CONTROL FLOW
- LISTS
- TUPLE
- DICTIONARY
- SETS
- FUNCTION
- MODULES AND PACKAGES
- FILES,-- INPUT AND OUTPUT HANDLING
- OOPS
- EXCEPTION HANDLING
- DATABASE PROGRAMMING
- DEVELOPMENT OF TOOLS(GIT, GIT HUB)
- MULTITHREADING
- REGULAR EXPRESSION

QUALITATIVE IDEAS OF:

- Statistical sampling & inference
- Hypothesis Testing & t-tests
- Prerequisites of above ideas(qualitative)
- Terms, Terminology & Notions of
- Linear Algebra Relevant to DataScience, including Probability

END-TO END MACHINE LEARNING PRACTICE:

- PipeLine ideas:
- EDA
- Feature Creation
- Evaluation Measures

DATA ANALYTICS CYCLE IDEAS:

- Data Acquisition
- Data Preparation
- Data cleaning
- Data Visualization
- Model Planning & Model Building

RESPECTIVE PERFORMANCE MEASURES:

- Different Errors
- Parameter Tuning

DS SPECIFIC PYTHON:

- Numpy
- Pandas
- Matplotlib
- Data imputing

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END OF Modu	ıle 1

Data Science Project:1

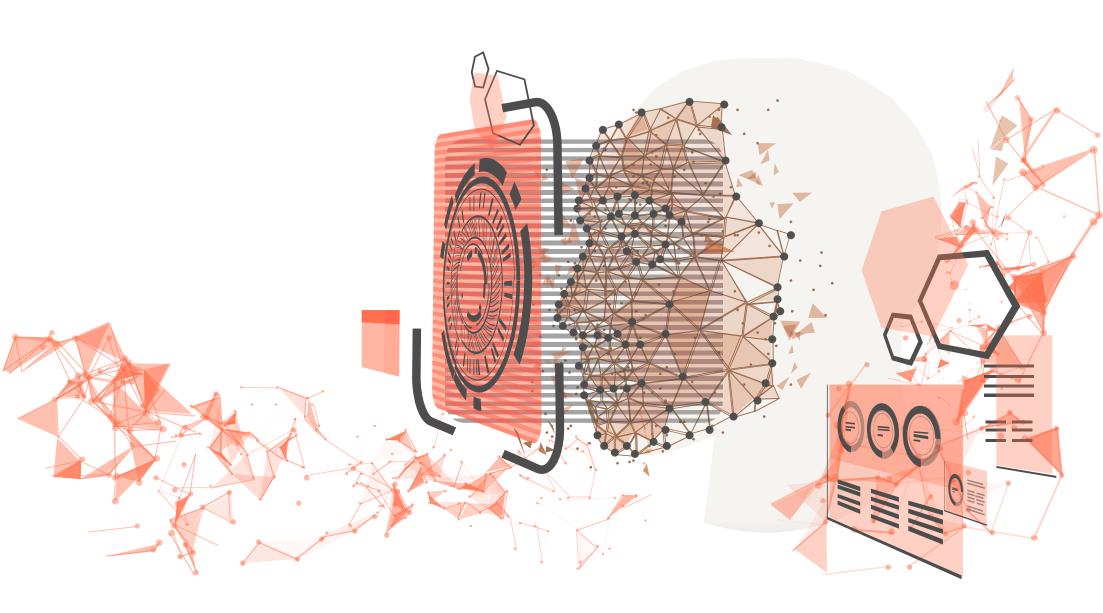
OBJECT DETECTION

Is traffic giving you nuisance? Are you really getting late for your office, or your date? Well, the best solution is to provide one, than to expect one. Use Deep Learning and OpenCV to tackle this biggest problem. Learn object detection algorithms and their applications.

Project: 2

FACIAL RECOGNITION

How about an app which recognises you and marks your attendance based upon recognising the faces? No need for that old punch cards method. Just show your face and that's enough. Your company recognises each and every employee by face, what else do we want? Work on this cool project with us by applying advanced concepts of Deep Learning and Computer Vision.





Digital Lync







Trending

Python

Devops

AWS

Azure (Cloud Computing)

Data Sciences

Deep Learning

Artificial Intelligence

Data Analysis

Big Data

Full Stack

Digital Marketing

Mobile Development

Blockchain

Visual Design

Game Development

IOT

Cyber Security

