

FULLSTACK DATA SCIENCE ENGINEER WITH CLOUD, BIG DATA & DEVOPS



Enriched Year 2024 Content

ACCELERATE YOUR CAREER GEAR TO EXPERIENCE, EXPLORE AND EXCEL THE CUTTING EDGE TECHNOLOGIES OF DEV-OPS, CLOUD AND BIG-DATA IMPLEMENTATION.....

Just a Click Ahead to Know More About Us

Why You have To Learn from Inceptez

• <https://www.shorturl.at/rsL26>

FAQ about the Course

• <http://Inceptez.in -> more -> Frequently Asked Questions>
• <https://www.shorturl.at/eflqA>

Our Other Value Added Services

• <http://Inceptez.in -> more -> Inceptez Interview & Job Support>
• <https://www.shorturl.at/inpKW>

**ENQUIRE, ANALYSE, COMPARE THEN EXPLORE,
EXPERIENCE, EVOLVE, ENCHANT, EXCEL & FINALLY
EXCEED YOUR CAREER GOAL ACCEPTING INCEPTEZ AS
YOUR CAREER PARTNER**

Inceptez Technologies was founded by a team of Big data Evangelists in 2014 and is one of the leading IT training, Development and staffing company specializing in Big Data, Data Science, Dev-Ops, Cloud Computing and Internet of things (IOT). Inceptez is a non money oriented training center, where we first prioritize Comprehensiveness, Engagement based, Focus based, Competitive model with high Quantity and Quality in all the training as a paramount.

Inceptez Technologies is mastered and administrated by highly skilled industry experts. We are the technology enablers committed to provide comprehensive training to the aspiring professionals in the game changing, high demanding applications such as Hadoop, Spark , Data Analytics, Data Science, DEV-OPS and AWS/Google Cloud Platforms, that are the fastest growing trend setting technologies that provide competitive advantage in the ever changing IT world.

ABOUT INCEPTEZ



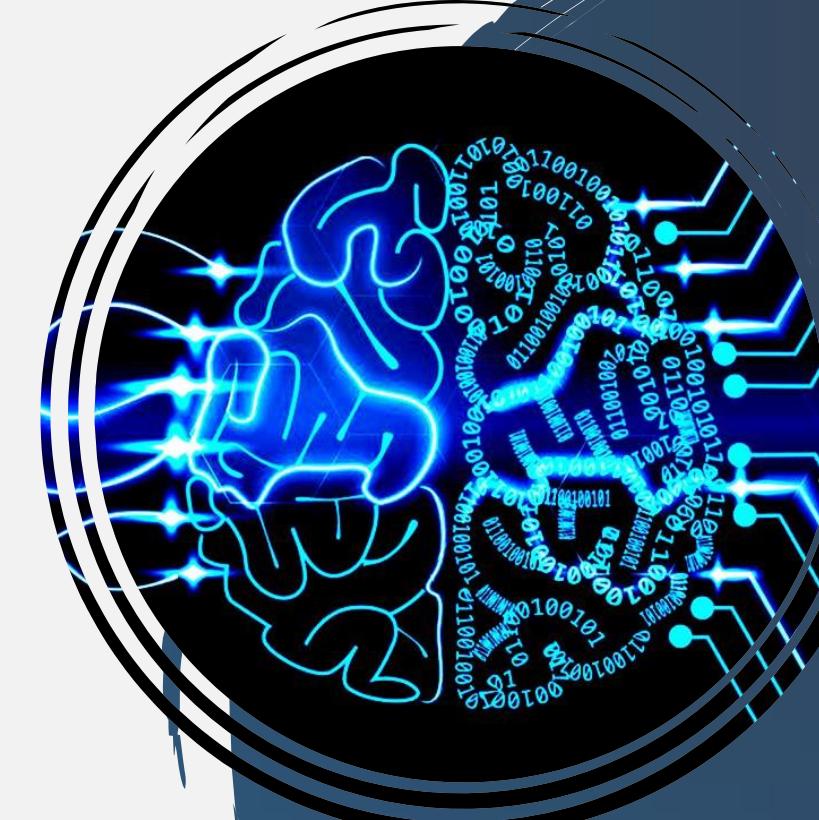
*We Just don't share the Knowledge rather we share
Knowledge of Experience that Chisel you to feel technically
Vibrated, Motivated & Overwhelmed*

 TRAINING	 DEVELOPMENT	 SOLUTION	 STAFFING
We are the technology leaders committed to provide comprehensive training to the aspiring professionals in the game	Our software engineering process collects and translates business requirements into imaginative technology solutions that become reality with custom software development.	We are the technical leaders expertise in providing end to end solutions for the cutting edge technologies which Industries demands for their business growth and analytics requirements.	Inceptez Technologies provides flexible, innovative recruitment strategies and technologies to maximize recruiting efficiency and reduce cost.

Data Science is application of analytics of Big data, that is becoming a strategic weapon for the tremendous growth of the Businesses and Companies of all sizes across all domains that has altered the business models of old industries and enabled the creation of new ones. **Data-driven businesses are worth \$1.2 trillion collectively in 2020**, an increase from \$333 billion in the year 2015.

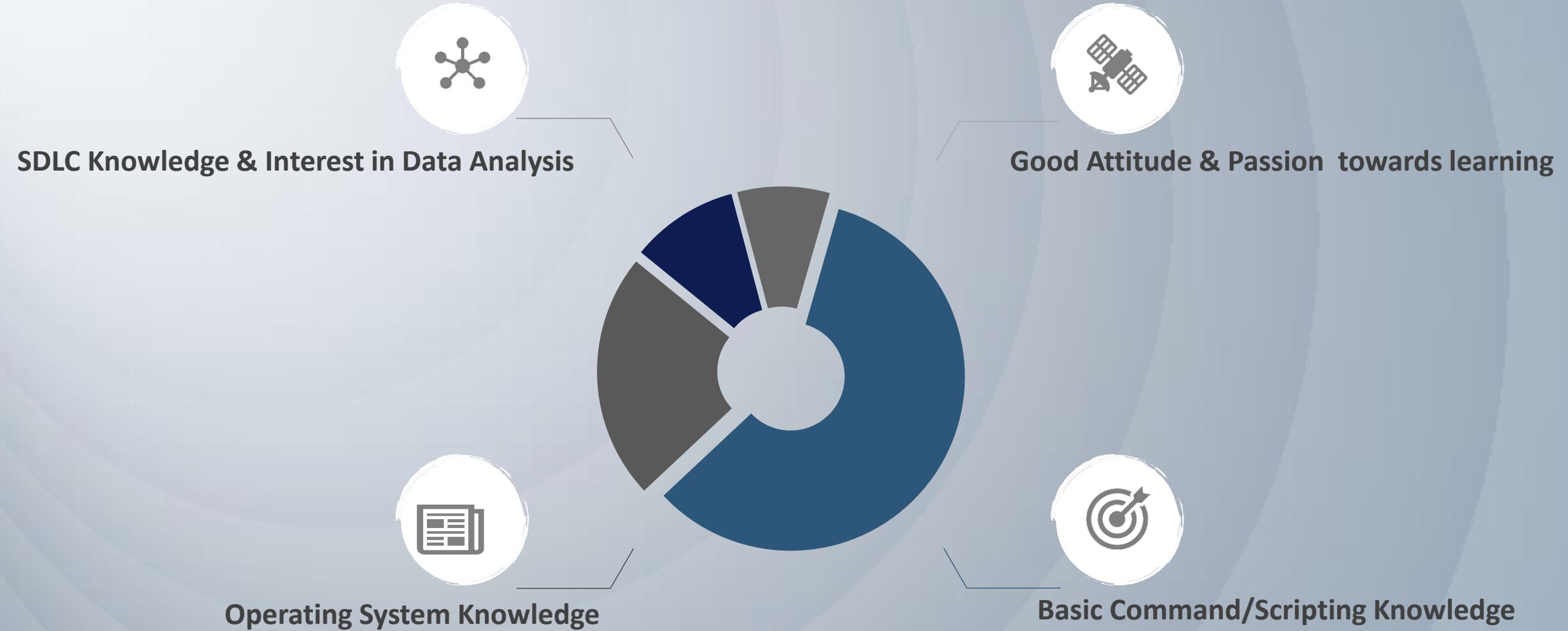
Data scientists are responsible for breaking down big data into usable information and creating software and algorithms that help companies and organizations use data as a strategic resource for exceeding the growing business need in this competitive World.

It is a well-proven fact that **effective collection and analytics** of the collected Big Data will place the implying organizations way ahead of their respective competitors. So the growing demand for a **qualified Data Scientists or a Data Science Engineer is multiplying not only in IT but across all Industries** are analyzing their own data. But **in contrast to this demand, there is a shortage of skilled Data Scientists.** And so, many top notching organizations are willing to pay extremely high pay packages for the best-skilled experts.



About Data Science & Data Analytics

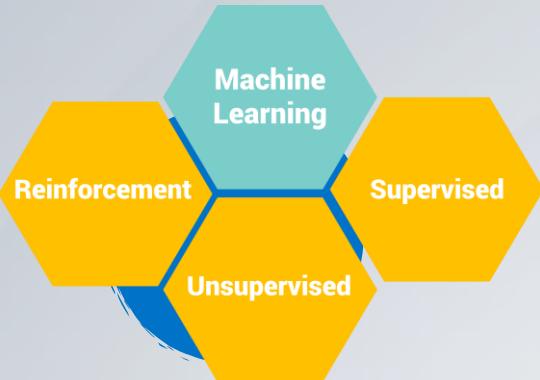
Prerequisite - Good to Know



What You will learn in this Unified Data Science Course



Python, Probability & Statistics



Machine Learning



Deep Learning & Text Mining



Hadoop, Spark, Hive, Sqoop



Visualization, Dashboard & Cloud Deployment

Python Basics
NumPy, Pandas
Skikit Learn
Probability & Statistics
With 90% Hands-on

Machine Learning with 20+ Algorithms with
80% Hands-on Data with Different Domain
and Use cases

Deep Learning 5+ Algorithms & Neural
Network 7+ Algorithms with Image
processing, Text Mining & NLP with 90%
Hands-on

BigData Introduction, Data ingestion using
Sqoop, SQL using Hive, Data processing
and end to end pipeline using PySpark with
85% Hands-on

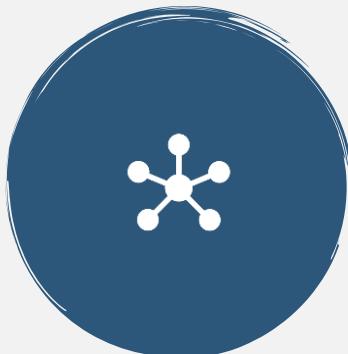
Creation of Visualization and Dashboards
with 80% Hands-on and
using Tableau with Model Packaging,
100% Hand-on on Model Packaging,
Deployment in Cloud & Cloud Formation
on (GCP & AWS)



Focussed way of Teaching
to address People from all
Background



Competitive
Teaching &
Learning Model



Purely Hands-on
Based Learning



Designed As per the Market
Standard

What's Unique in Our Course

**All under one course - Learning, Hands-on, Presentation,
Implementation, Interview, Projects, Case Studies, Cloud Deployment etc.**

Job Oriented Training, Professional Environment

All Trainings by Industry Experts, Completely Hands-on Driven,

**End to End learning model from Data Extraction, Pre Processing,
Model implementation, Training, Testing, Packaging & Deployment**

Extended Training Duration to cover topics Wide and Depth

Use cases, Case Studies, Performance Tuning, Best Practices

**Interview and Job Support with seasoning of Resume with Data
Science**

Provision of End to end simplified & comprehensive learning materials

**Addresses 360 degree requirements of all students complete the
training with Overwhelming Experience**

Competitive learning, Active, Comparative & Declarative learning

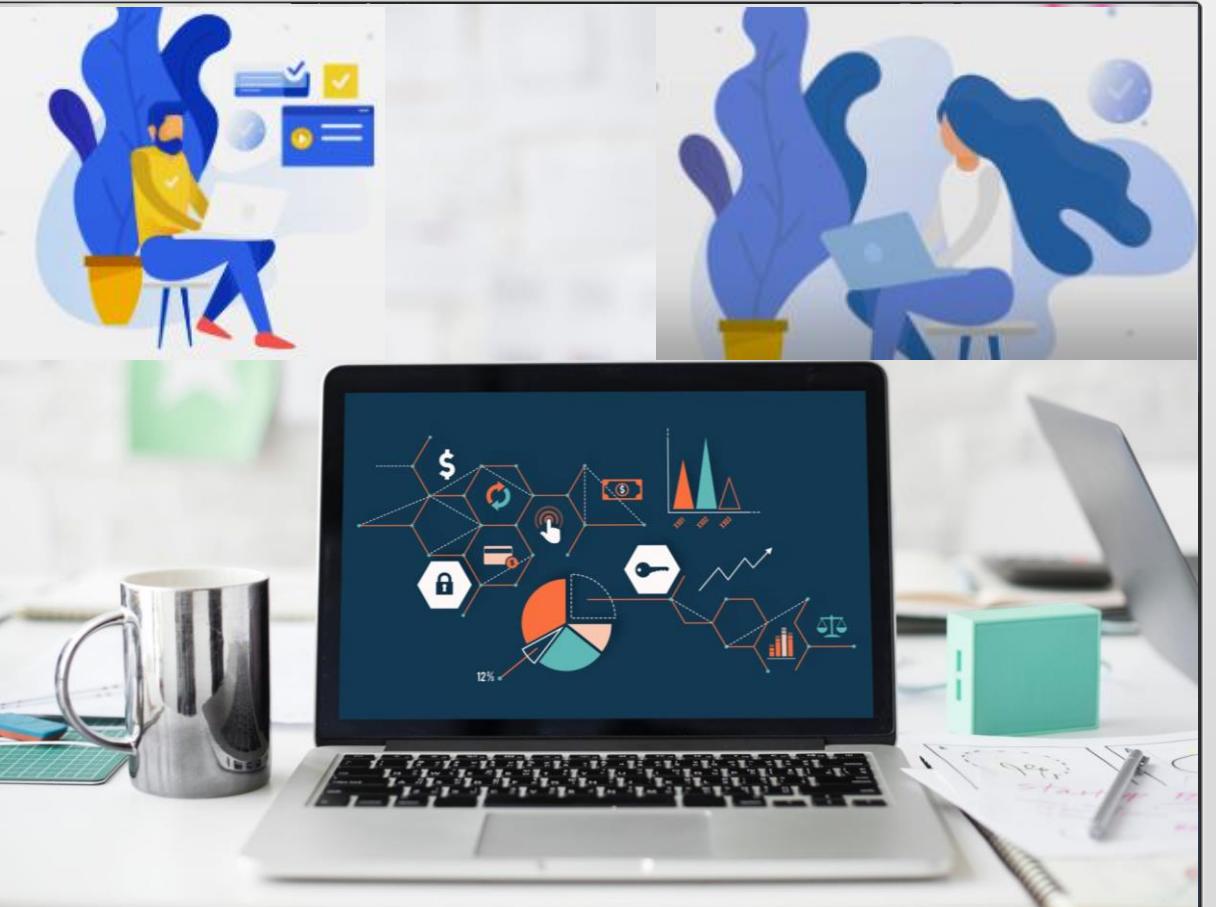
20+ Use Cases, 4 Realtime Projects for gathering Realtime experience

2 Hackathons & 2 Tests with Certification Guidance

Packaging & Production Deployment Strategies on Cloud

**Year 2022 Enriched Content with added Models, Deep Learning,
Features & Datasets**

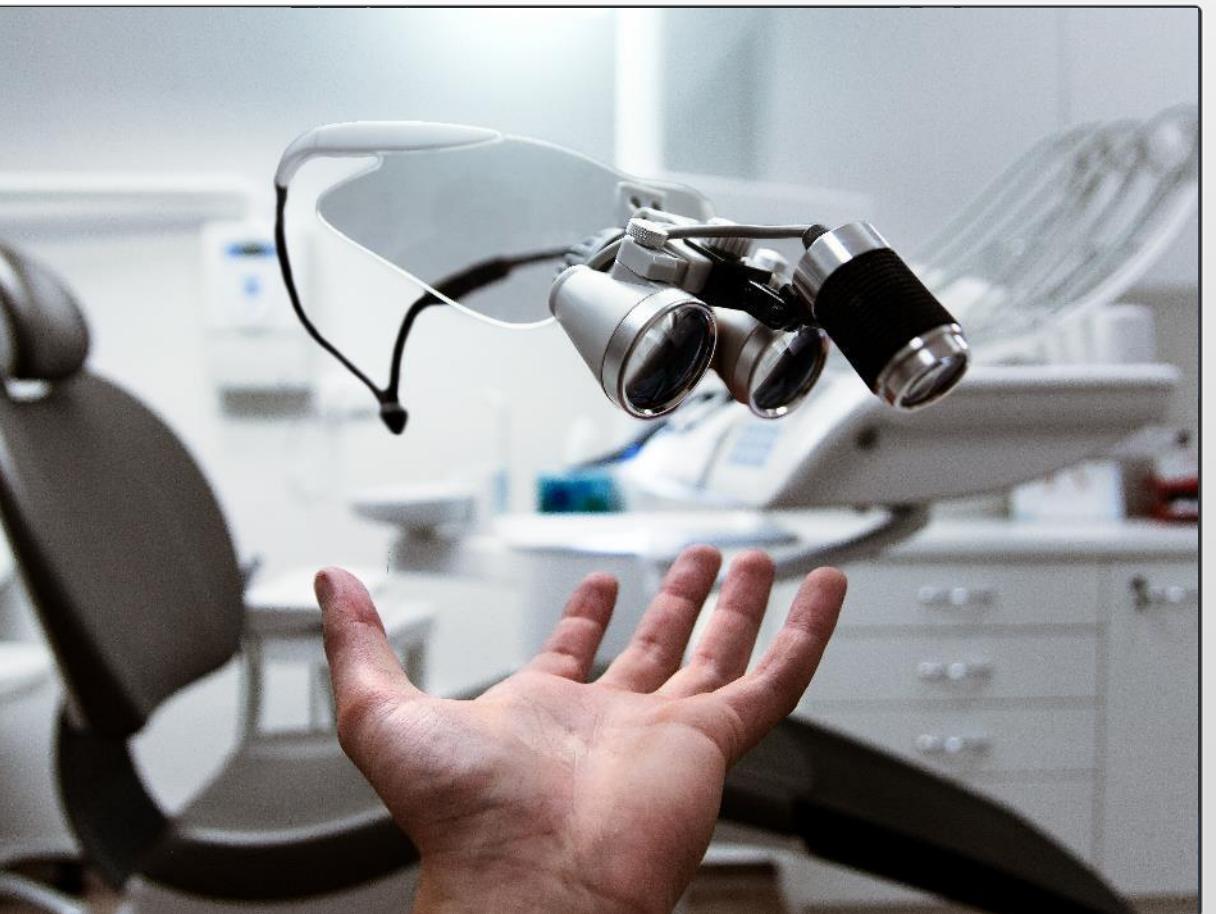
High Level Course Curriculum



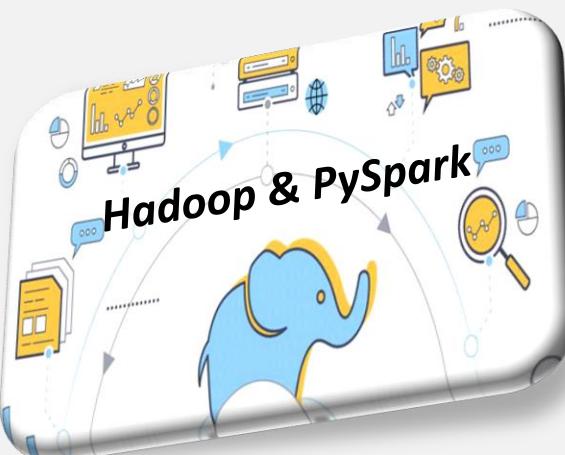
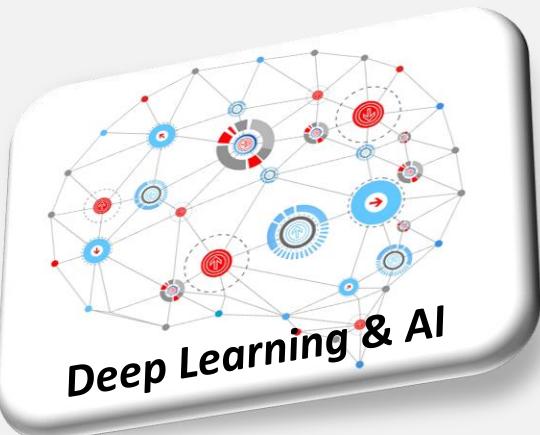
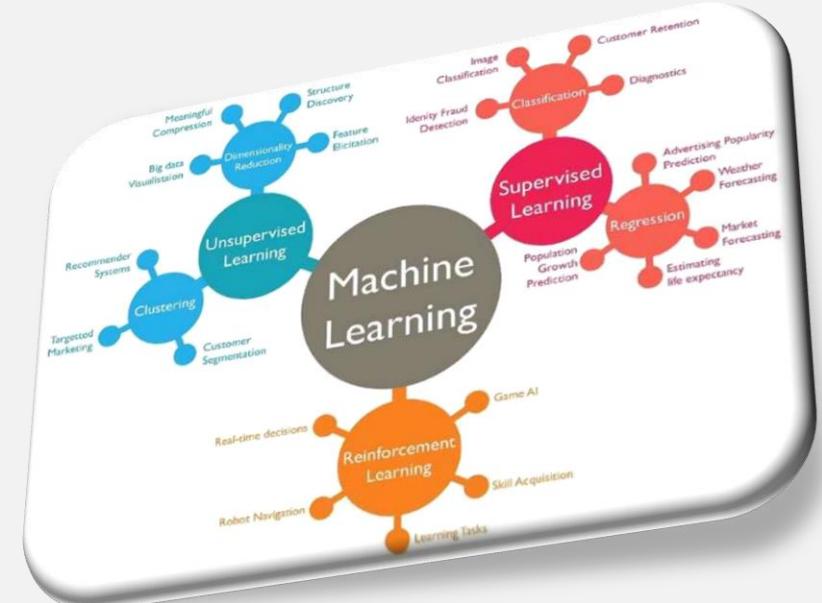
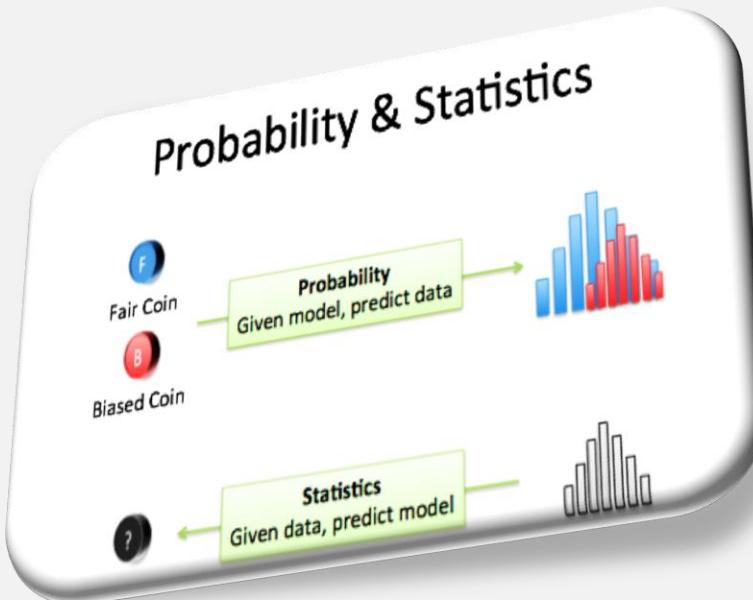
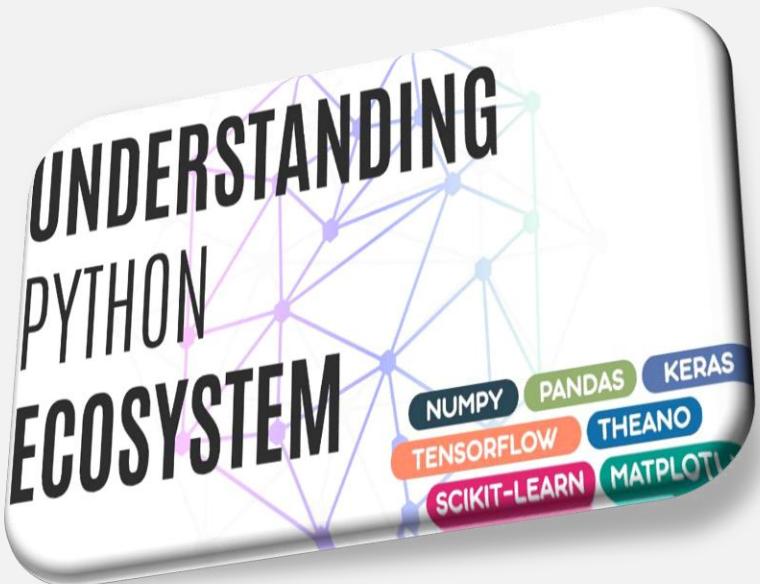
- INTRODUCTION TO DATA SCIENCE AND DATA ANALYTICS
- ESSENTIAL UNDERSTANDING OF PYTHON
- PYTHON BASICS & ADVANCED
- PYTHON ECOSYSTEMS FOR MACHINE LEARNING – NUMPY, PANDAS, SKIKIT
- FOUNDATION OF STATISTICS & FOUNDATION OF PROBABILITY
- OVERVIEW OF DATA SCIENCE
- END TO END PRE PROCESSING TECHNIQUES
- DEEP DIVE IN LINEAR REGRESSION WITH HANDSON & PROJECT
- DEEP DIVE ON LOGISTIC REGRESSION WITH HANDSON & PROJECT
- DEEP DIVE ON KNN ALGORITHM WITH HANDSON & PROJECT
- DEEP DIVE ON NAÏVE BIAS WITH HANDSON & PROJECT
- DEEP DIVE ON TIME SERIES FORECASTING WITH HANDSON & PROJECT
- DEEP DIVE ON SVM WITH HANDSON & PROJECT
- DEEP DIVE ON DECISION TREE WITH HANDSON & PROJECT
- ENSEMBLE TECHNIQUE (RANDOM FOREST, ADABOOST) WITH HANDSON & PROJECT
- UNSUPERVISED ALGORITHMS IN MACHINE LEARNING (K-MEANS, K-MEANS++, HIERARCHICAL CLUSTER) WITH HANDSON & PROJECT
- DEEP LEARNING WITH HANDSON & PROJECT
- NEURAL NETWORKS WITH HANDSON & PROJECT
- TEXT MINING & NLP WITH HANDSON & PROJECT
- DEVELOPMENT & DEPLOYMENT OF MACHINE LEARNING MODEL IN GOOGLE & AWS CLOUD
- DEVOPS – GITHUB WITH HANDSON
- PROJECTS, CASE STUDIES, USE CASES, BEST PRACTICES, OPTIMIZATION TECHNIQUES WITH HANDSON
- HACKATHON & TESTS with Cash Rewards & Goodies for the Toppers
- BIGDATA – SQUOOP, HIVE, PYSPARK WITH HANDSON & PROJECT
- VISUALIZATION & DASHBOARD USING TABLEAU WITH HANDSON & PROJECT
- Hands-on from day one
- Exclusive Python coverage
- Insights on business use cases across all domains with IEEE papers
- Handsome of data sets will be provided for practice
- All the PPTs, PDF and code will be shared
- Post-session support and assistance
- Specific business/domain use cases will be dealt with (based on the availability of the experts)
- Year 2022 addition of – COMPUTER VISION, ML – PREDICTIONS , DEPLOYMENT HEROKU, FLASK APPLICATION DEPLOYMENT , ATTENTION MECHANISM, TRANSFORMER , BERT MODEL PREDICTION

Domains Covered

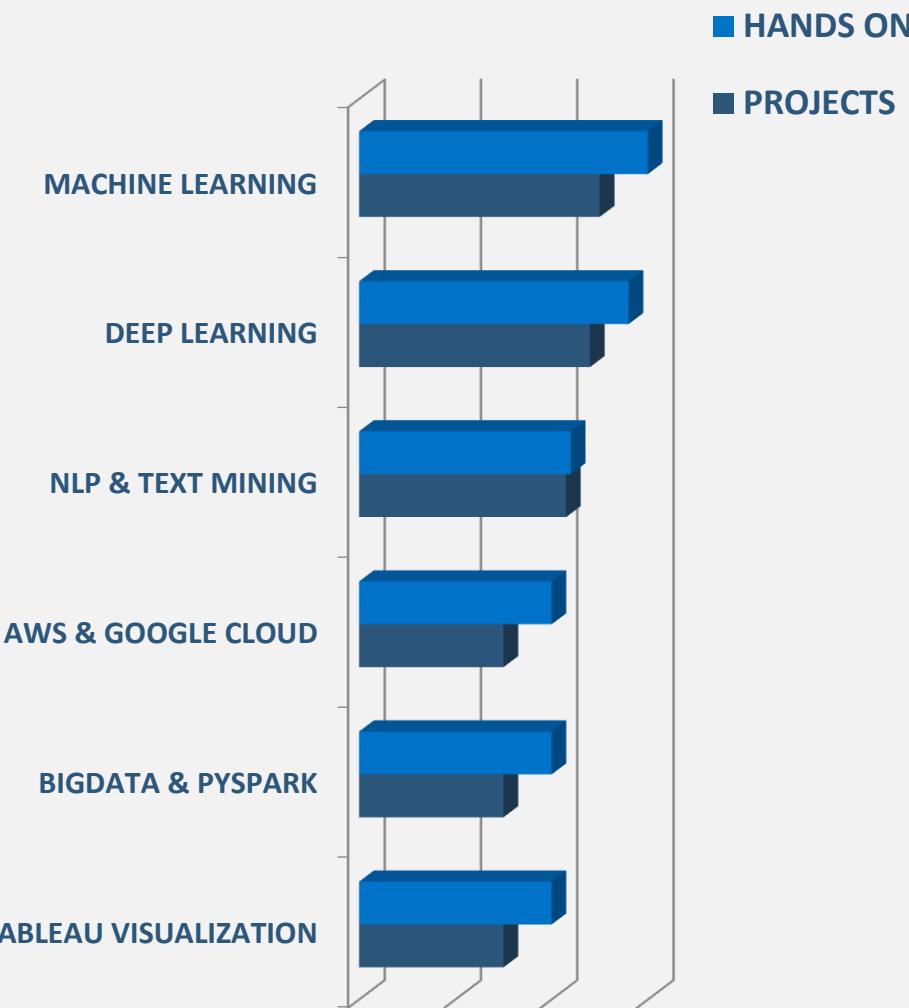
Media, Telecom, Medical, Real estate, retail, Airlines, Finance, Banking, Marketing, Images, Audio and Chat Raw text



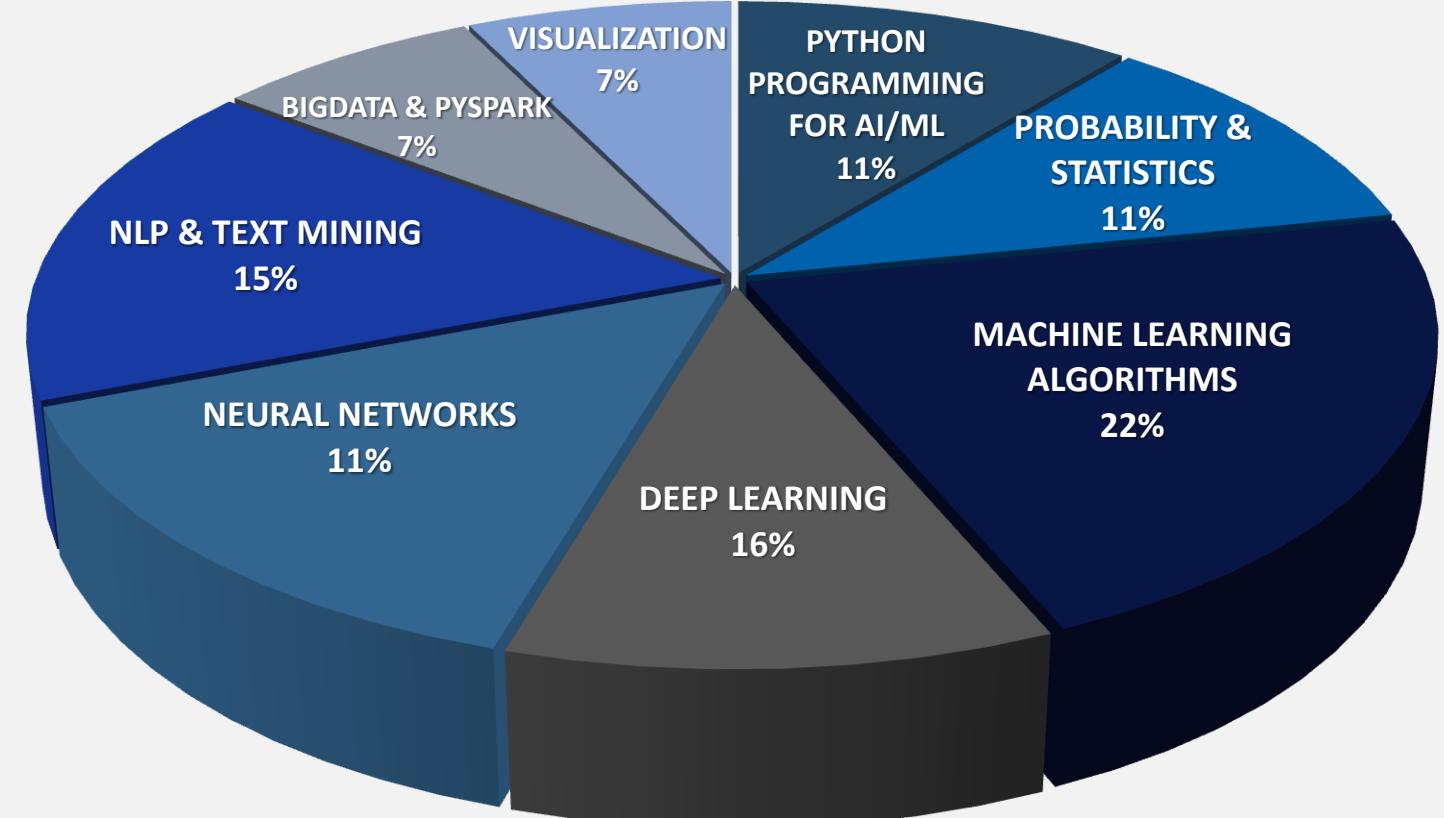
Year 2024 Single Unified Course on AI & ML Deployed in Cloud with Bigdata & Visualization



HANDS-ON & PROJECTS



TECHNOLOGY STACK



Course Key Highlights – Projects & Use cases

- ✓ Linear Regression on sales by spending their Advertisement on different streams
- ✓ Linear Regression on US Housing Price
- ✓ Logistic Regression
- ✓ Telecom - Churn prediction of customers based on past data.
- ✓ Create a model to predict the expectation of the telecom customer expected to disconnect or leave the service.
- ✓ Logistic Regression to predict the Breast cancer probability in the medical domain & Loan Price Prediction
- ✓ Demo on Titanic dataset prediction on who will survive using Logistic Regression
- ✓ Time Series Forecasting
- ✓ Forecasting air carrier traffic in US
- ✓ Forecasting Tractor sales
- ✓ How to Check Stationary of a Time Series?
- ✓ How to make a Time Series Stationary?
- ✓ Forecasting a Time Series
- ✓ Decision Tree - Prediction on balance scale data
- ✓ K-NN Algorithm -
- ✓ Classification
- ✓ Prediction on breast cancer wisconsin data
- ✓ Prediction on fruit data with colors
- ✓ Ensemble technique -
- ✓ Stacking
- ✓ What is an ensemble model?
- ✓ What are bagging, boosting and stacking?

Course Key Highlights – Projects & Use cases

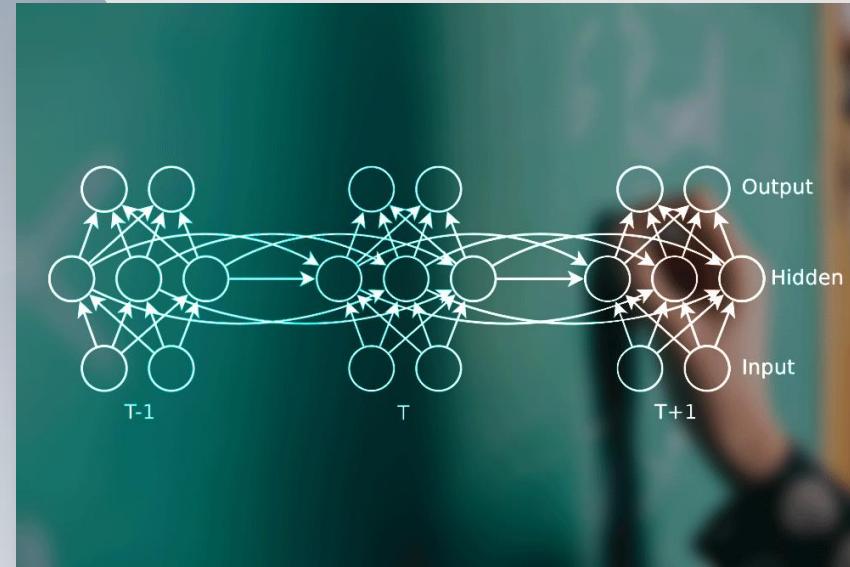
- ✓ What are the benefits of ensemble model?
- ✓ Random forest Prediction on Lending Club data set
- ✓ AdaBoost Prediction on pima-indians-diabetes.data
- ✓ SVM Prediction with iris dataset
- ✓ Neural Network
- ✓ Toy Example
- ✓ Predicting median value of owner occupied homes
- ✓ Neural networks, a beautiful biologically-inspired programming paradigm which enables a computer to learn from observational data
- ✓ Deep learning, a powerful set of techniques for learning in neural networks
- ✓ Text Mining
- ✓ Data Extraction from Shakespeare novel
- ✓ Text mining NLTK and Sci kit learn
- ✓ Unstructured text is very common, and in fact may represent the majority of information available to a particular research or data mining project.
- ✓ Chat bots and NLP with IBM Watson Overview.
- ✓ Hadoop & Spark
- ✓ Customer Transaction batch acquisition and Processing.
- ✓ Twitter Sentiment Analysis.
- ✓ Weblog analysis.
- ✓ Visualization & Dashboard
- ✓ Sales prediction with Exploratory Data Analysis.
- ✓ Chat bot with IBM Watson libs.

Year 2024 Advancement & Enrichment in the Course Curriculam



Computer Vision

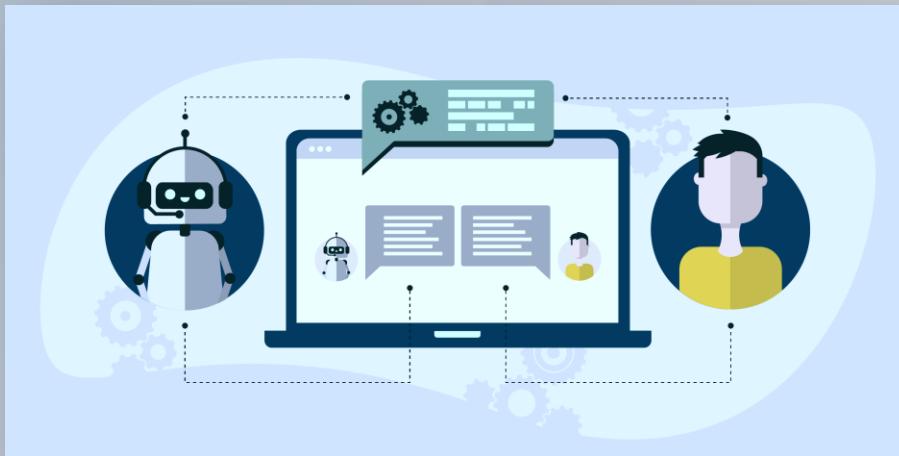
- ✓ Extended Hyper-Parameter tuning
- ✓ Pre-Trained Models
- ✓ Transfer Learning
- ✓ Data Augmentation
- ✓ Predicting cat or Dog from image
- ✓ Predicting Fashion apparels
- ✓ Yolo Object Detection



Recurrent Neural Network

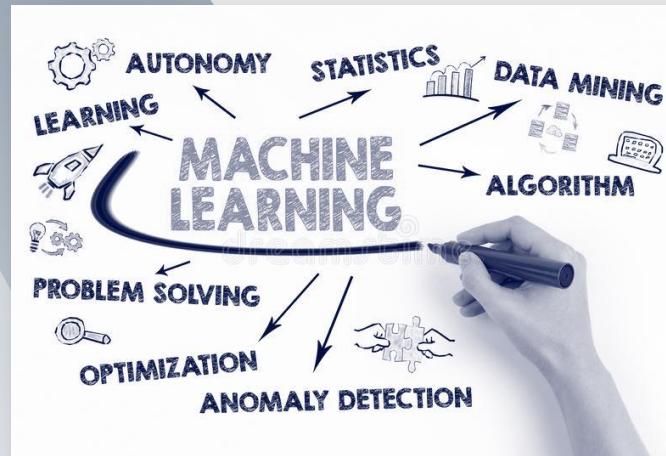
- ✓ Predicting Reuters Text Classification
- ✓ Predicting the next sequence of word
- ✓ Image Caption Generator
- ✓ Language Translation Model (German to English)

Year 2024 Advancement & Enrichment in the Course Curriculum



Natural Language Processing

- ✓ Sentiment Classification in IMDB Movie review using Lexicon
- ✓ Sentiment Classification in IMDB Movie review using different classification Algorithm using different ways of text transformation
- ✓ Pre trained Model
- ✓ Transfer Learning with ELMO pre-trained embedding's
- ✓ Transfer Learning using Universal Embedding
- ✓ Transfer Learning using BERT
- ✓ Build Recommendation engine for IMDB Movie
- ✓ Topic Model on IEEE Paper
- ✓ Attention Mechanism, Transformer, BERT model with practical



Machine Learning

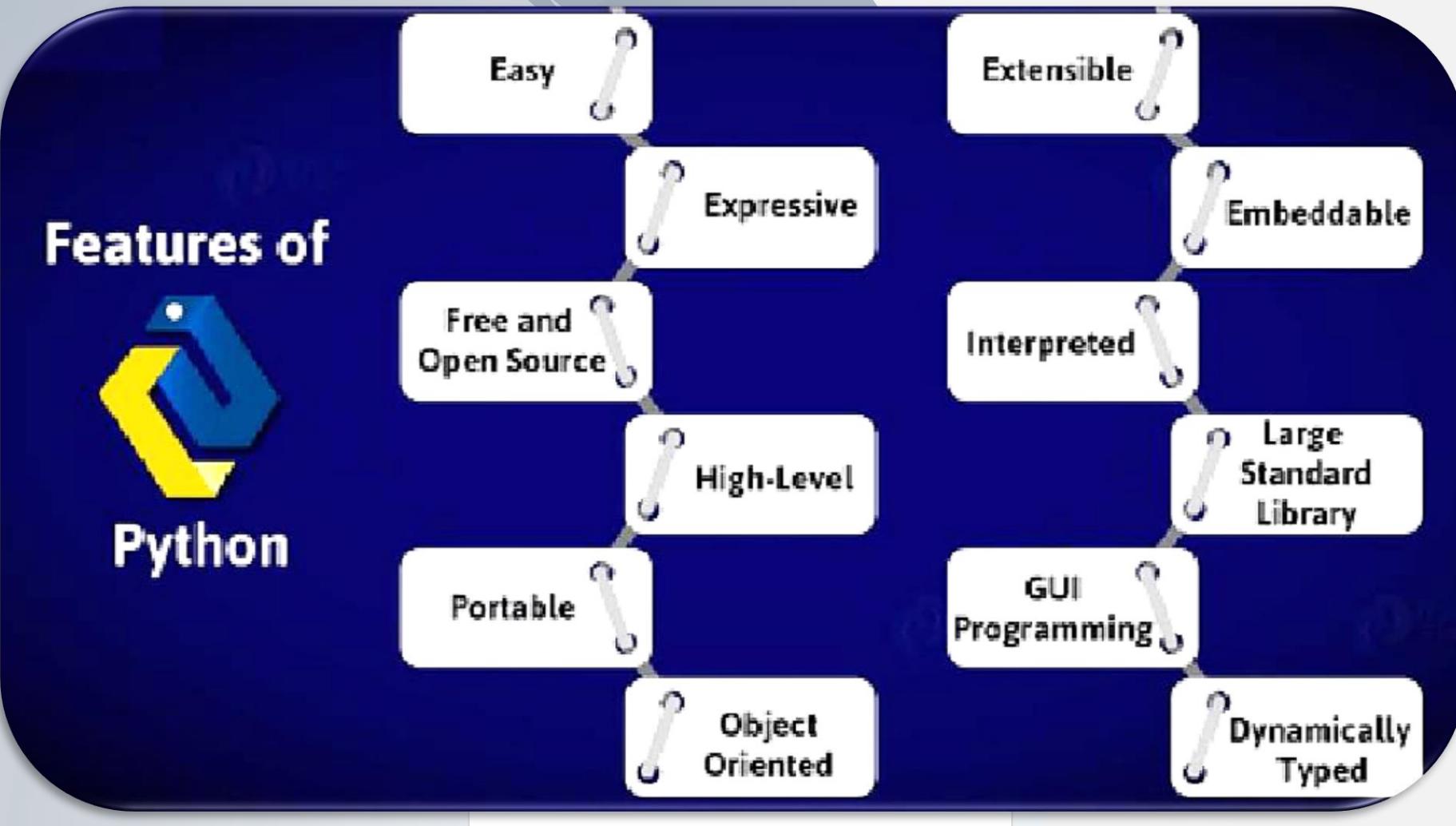
- ✓ In Depth Gradient Descent
- ✓ Big Mart Sales Prediction
- ✓ Predict Price of Books - Activity
- ✓ Predict Customer Default - Activity
- ✓ Black Friday Sales Prediction
- ✓ Promotion Prediction with HR Activity
- ✓ Crossell Prediction - Activity
- ✓ Insurance Prediction - Activity
- ✓ Predict Flight Tickets - Activity



Deployment

- ✓ Heroku setup
- ✓ Deploying a Flask application in Heroku from Github

Let's Deep Dive into the World of Python Programming for Data Analytics



Data Science, Analytics Intro with Python

DATA SCIENCE AND DATA ANALYTICS

Understand what is Data Science & Data Analytics at the nut shell before deep diving it

- What is Data Science
- Importance of Data Science
- Analytical Tools
- Profession of the future
- Pillars of Data science
- AREAS & NEED OF DATA ANALYTICS
 - Types of Business Analytics
 - Descriptive Analytics
 - Predictive Analytics
 - Prescriptive Analytics
 - Marketing Analytics
 - Proactive Analytics

PYTHON FOUNDATION

In this module you will be learning Introduction & Key Components of Linux



- INTRODUCTION TO PYTHON
 - Objectives
 - History and overview of Python
 - Uses of Python
 - Features of Python
 - Install & Configuration of Python
 - Flavors of Python
 - Anaconda
 - Version of Python
- PYTHON HANDSON EXERCISE
 - Getting Started & Basics
 - Keywords & Identifiers
 - Statements & Comments
 - Python Variables

PYTHON BASICS

Learning programming language basics to become a Python programmer

- PYTHON BASICS
 - Python Data Types
 - Python Type Conversion
 - Python I/O and Import
 - Python Operators
 - Python Namespace
- PYTHON FLOW CONTROL
 - Python if...else
 - Python for Loop
 - while Loop
 - break and continue
 - Pass Statement
 - Looping Techniques



Python Programming for AI & ML

PYTHON DATATYPES & FUNCTIONS

Python basic data types, collections, functions, lambda

- DATA TYPES
 - Python Numbers
 - Python List
 - Python Tuple
 - Python String
 - Python Set
 - Python Dictionary
 - Python Arrays
 - Python Matrix
 - List Comprehension

- FUNCTIONS
 - Defining a function
 - Calling a function
 - Types of functions
 - Function Arguments
 - Lambda function
 - Global and local variables



PYTHON MODULES

Python modules, libraries, exception handling

- MODULES
 - Importing module
 - Math module
 - Random module
 - Packages
- EXCEPTION HANDLING
 - Exceptions type
 - Exception Handling
 - Except clause
 - Try ? finally clause
 - User Defined Exceptions
- PYTHON FOR DATA ANALYTICS
Manipulation of Data



PYTHON FOR MACHINE LEARNING

Understanding and manage the multi dimensional array and matrices using NUMPY library

- NUMPY
 - Why Numpy?
 - Arrays
 - Using array generating functions
 - Diagonal and Zero matrix
 - Array Access
 - Array Slicing
 - Negative indexing
 - Strident Access
 - Array Operation
 - Matrix multiplication
 - Iterating over Array Elements
 - Vectorize
 - Arrays in condition
 - Scipy and Matplotlib
 - Plot visualization

Python, Statistics & Probability

PYTHON PANDAS HANDS ON

In this module you will be learning Python Pandas data frame library including data management and wrangling

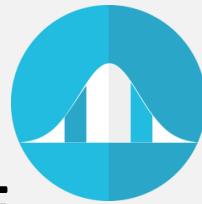
- PANDAS
 - Import modules
 - Create a data frame
 - Write to a csv file
 - Read data from file
 - Get data types
 - Take a look at the data
 - Working on the data
 - Describe the data
 - Add a column
 - Accessing and indexing the data
 - Missing data
 - Query the data
 - Apply a function
 - Grouping the data



PYTHON PANDAS HACKATHON & TEST

Learn the foundation of Statistics in an interesting way with hands on exercises

- Series
 - Data Frame
 - Re indexing
 - Dropping Entries
 - Indexing, Selecting, Filtering
 - Arithmetic and Data Alignment
 - Function Application and Mapping
 - Sorting and Ranking
 - Axis Indices with Duplicate Values
 - Summarizing and Computing Descriptive Statistics
 - Cleaning Data Input and Output
-
- ***Hands on Exercises by students***
 - ***Validation of results with Q&A***
 - ***Writing of Exam in Python***



FOUNDATION OF STATISTICS

Learn the foundation of Statistics in an interesting way with hands on exercises

- FOUNDATION OF STATISTICS
 - Statistical Jargons
 - Understanding the properties of an attribute
 - Central tendencies (Mean, Median, Mode)
 - Measures of spread (Range, Variance, Standard Deviation)
 - Z score
- FOUNDATION OF PROBABILITY
 - Exclusive Event
 - Independent Event
 - Introduction to random variables
 - Joint probability
 - Marginal probability

Discrete Probability with Hands-on & Test

FOUNDATION OF PROBABILITY

Learn the discrete probability in an interactive way with real time samples

- Union probability
- Conditional probability
- Probability theory
- Conditional probability
- Most powerful algorithms in probability theory
- Bayes Theorem
- Probability tree
- Confusion Matrix
- **DISCRETE PROBABILITY DISTRIBUTIONS**
 - Bernouli
 - Binomial
 - Geometric



DISCRETE PROBABILITY DISTRIBUTION

Learn the discrete probability in an interactive way with real time samples

- Poisson and properties of each
- Continuous probability distributions
- Exponential
- Special emphasis on Normal distribution
- t-distribution
- Central Limit Theorem
- Sampling distributions
- Confidence Intervals
- Hypothesis Testing
- Statistical hypothesis
- ANOVA



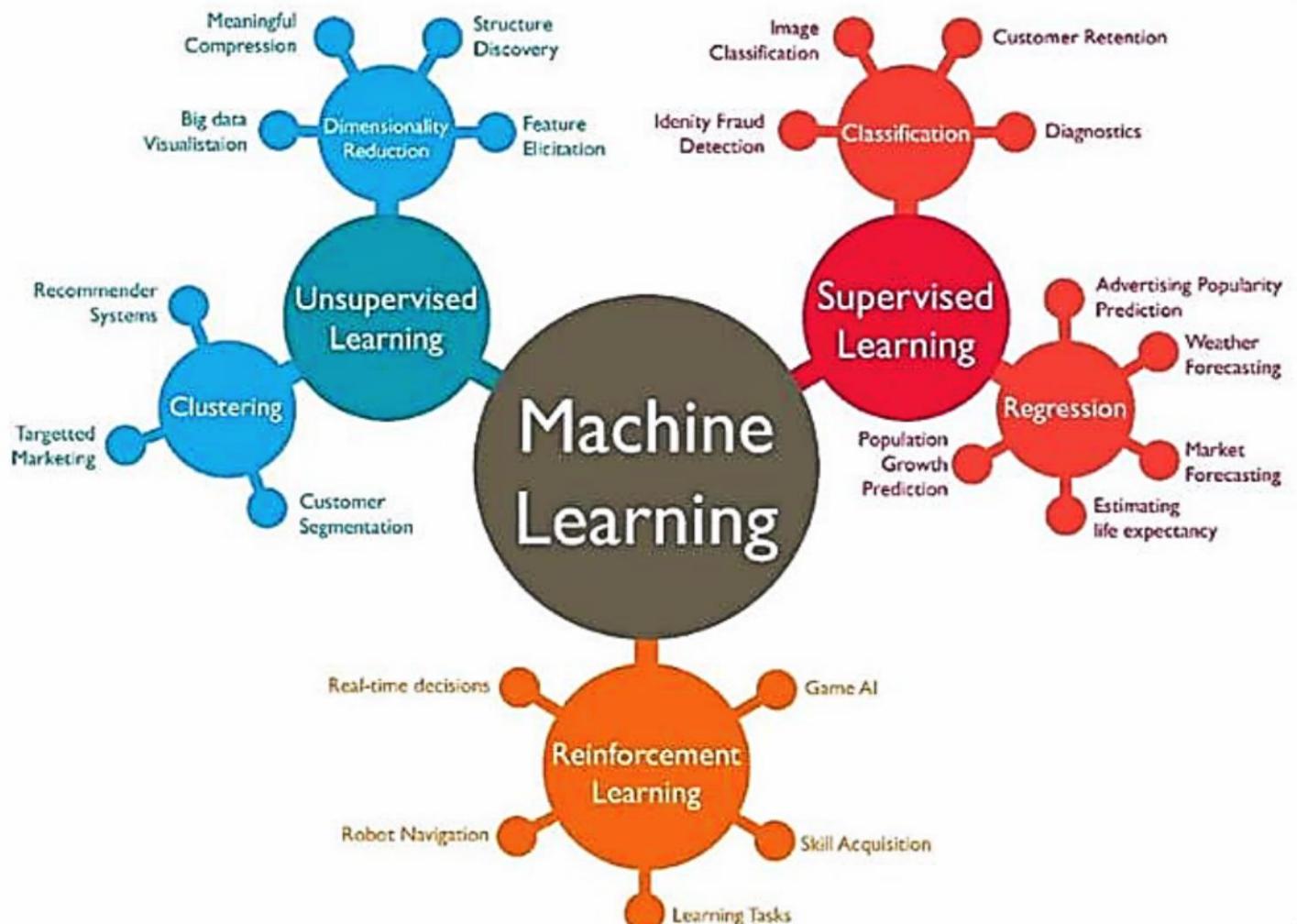
PROBABILITY & STATISTICS HANDS-ON, TEST & HACKATHON

Solving of Problems of Statistics & Probability with test and hackathon

- Problem Solving in Probability & Statistics
- **Test on Probability**
- **Test on Statistics**
- **Test on Inferential Statistics**
- **ANOVA**
- **Hackathon**
- **Q&A**
- **Probability with Test & Hackathon**



Let's Deep Dive into the World of Data Science & Analytics



Data Science

- based on strict analytical evidence
- deals with structured & unstructured data
- includes various data operations



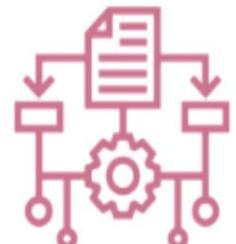
Artificial Intelligence

- imparts human intellect to machines
- uses logic and decision trees
- includes machine learning



Machine Learning

- subset of AI
- uses statistical models
- machines improve with experience



Deep Dive into Data Science

ALL ABOUT DATA SCIENCE

Lets Enter into the world of Data
Science & Analytics

- DATA ANALYTICS OVERVIEW
 - Introducing the world of Data Science
 - Examples of Data science helping up the business
 - Future of Datadriven decisions
 - Analytical Tools
 - Pillars of Data science
 - Understanding Analytics
 - Types of Business Analytics
 - Descriptive Analytics
 - Diagnostic Analytics
 - Predictive Analytics
 - Prescriptive Analytics
 - Real life uses case of Machine Learning

PRE PROCESSING TECHNIQUES

Foundation of Preprocessing of raw data for data cleaning, transformation, reduction, conversion, feature selection etc.

- Building own use cases of ML (domain specific)
- Supervised Learning
- Unsupervised Learning
- Reinforced Learning
- PRE-PROCESSING
 - Why pre-process the data?
 - Why data is dirty?
 - Why data pre-processing is important?
 - Major task is data pre-processing
 - Data Cleaning
 - Data Integration
 - Data Transformation
 - Data Reduction
 - Feature extraction & Selection

LINEAR REGRESSION

Analysis of Continuous dataset using Linear Regression using different Algorithms

- DEEP DIVE IN LINEAR REGRESSION
 - Understanding Linear Regression with examples
 - Gradient descent and its parameters
 - Formulae and maths behind this model
 - Multiple Linear Regression
 - Polynomial Regression
 - Categorical Variables in Regression
 - Error metrics to calibrate performance the model
 - End to end Hands-on modeling of real-time problems (Python and Scikit-learn) with domain Dataset
 - Realtime application with Pros & Cons

Logistics, KNN, Kmeans, Naïve Bias



1. UPLOAD YOUR DATA



2. CREATE A DATASET



3. CREATE A LOGISTIC REGRESSION



4. ANALYZE YOUR RESULTS



5. EVALUATE THE LOGISTIC REGRESSION



6. MAKE PREDICTIONS

LOGISTICS REGRESSION

Hands on exercise on unbalanced dataset, bias variance, exp functions, logarithms

- DEEP DIVE ON LOGISTIC REGRESSION

- Understanding Logistic Regression with an example
- Sigmoid function
- Formulae and maths behind this model
- Error metrics to calibrate the performance of the model
- End to end Hands-on modeling of real-time problems (using Python and Scikit-learn) with domain Dataset
- Hands on on exponential functions
- Logarithms
- Connecting the Concepts
- Realtime application with Pros & Cons



KNN, KMEANS ALGORITHMS WITH HANDSON EXERCISE

- DEEP DIVE ON KNN ALGORITHM

- Understanding KNN with examples
- Formulae and maths behind this model
- How to find optimal K value
- Error metrics to calibrate the performance of the model
- End to end Hands-on modelling of real-time problems (Python and scikit-learn) with domain Dataset
- Telesales data analysis hands on
- Old faithful Geyser Data analytics
- Neighbour, metrics, weighed KNN hands on exercise
- Real time application Pros & Cons
- Kmeans Clustering real time hands on



NAÏVE BIAS ALGORITHM DEEP DIVE

NB - Real time implementation

- DEEP DIVE ON NAÏVE BIAS

- Understanding Bayes Theorem
- Implementation Algorithm with example
- Math Behind the Algorithm
- Error metrics to calibrate the performance of the model
- Likely hood table example
- End to end Hands-on modelling of real-time problems (Python and scikit-learn) with domain Dataset
- Likely hood table management example with hands-on
- Real time application with Pros & Cons

Time Series, Decision Tree, Hierarchical, Ensemble Algorithms

TIME SERIES ALGORITHMS

Continuous data analytics of trending data set including smoothing, moving average with ARIMA & Cyclical

- DEEP DIVE ON TIME SERIES FORECASTING
 - Understanding Trend analysis
 - Cyclical
 - Seasonal analysis
 - Smoothing
 - Moving averages
 - Auto-correlation
 - ARIMA Applications of Time Series
 - Visualization of Time series continuous dataset
 - End to end Hands-on modeling using FB Prophet for Time series forecasting (Python) with domain Dataset
 - Auto Arima, Sales regression, Air passenger data analysis etc.,

HIERARCHIAL CLUSTERING

Lineage and Distance matrix data analytics with hierarchical clustering

- HIERARCHIAL CLUSTERING
 - Divisive method
 - Agglomerative method
 - Linkage or distance matrix
 - Mall customer and shopping cart analysis Hands on
 - Dendograms hands on
 - Real time application with Pros & Cons
- DEEP DIVE on STACKING & BOOSTING + SVM Overview
 - Overview of SVM with examples
 - Learning about Kernel and Support Vector Machine
 - Formulae and maths behind this model

SVM, STACKING & BOOSTING

Boosting Techniques with different Algorithms

- Boosting, Ensemble, Ada Boost, Stacking, SVM Boosting (Overview) Hands-on with Use cases – Competition winning Algorithm
- Error metrics to calibrate the performance of the model
- Hands-on modelling using real-time problem using python
- DEEP DIVE ON DECISION TREE
 - Entropy, Information Gain and Gini Index
 - Formulae and maths behind this model
 - Error metrics to calibrate the performance of the model
 - Understanding Decision Tree with realtime examples and implementation

Decision Tree, Ensemble, Un Supervised Learning

DECISION TREE ALGORITHMS

Decision tree algorithms for decisioning a real world problem

- Hands-on modelling of real-time problems (using Python and scikit-learn) with domain Dataset
- Real time application with Pros & Cons
- Implementaion of CART algorithm
- Entropy techniques hands on
- ENSEMBLE TECHNIQUE (RANDOM FOREST, ADABOOST)
 - Bagging, boosting and stacking and its impact
 - Random forest
 - Adaboost
 - Math Behind the model
 - Sequential ensemble methods

ENSEMBLE TECHNIQUES

Random forest and Ada Boosting with end to end hands on

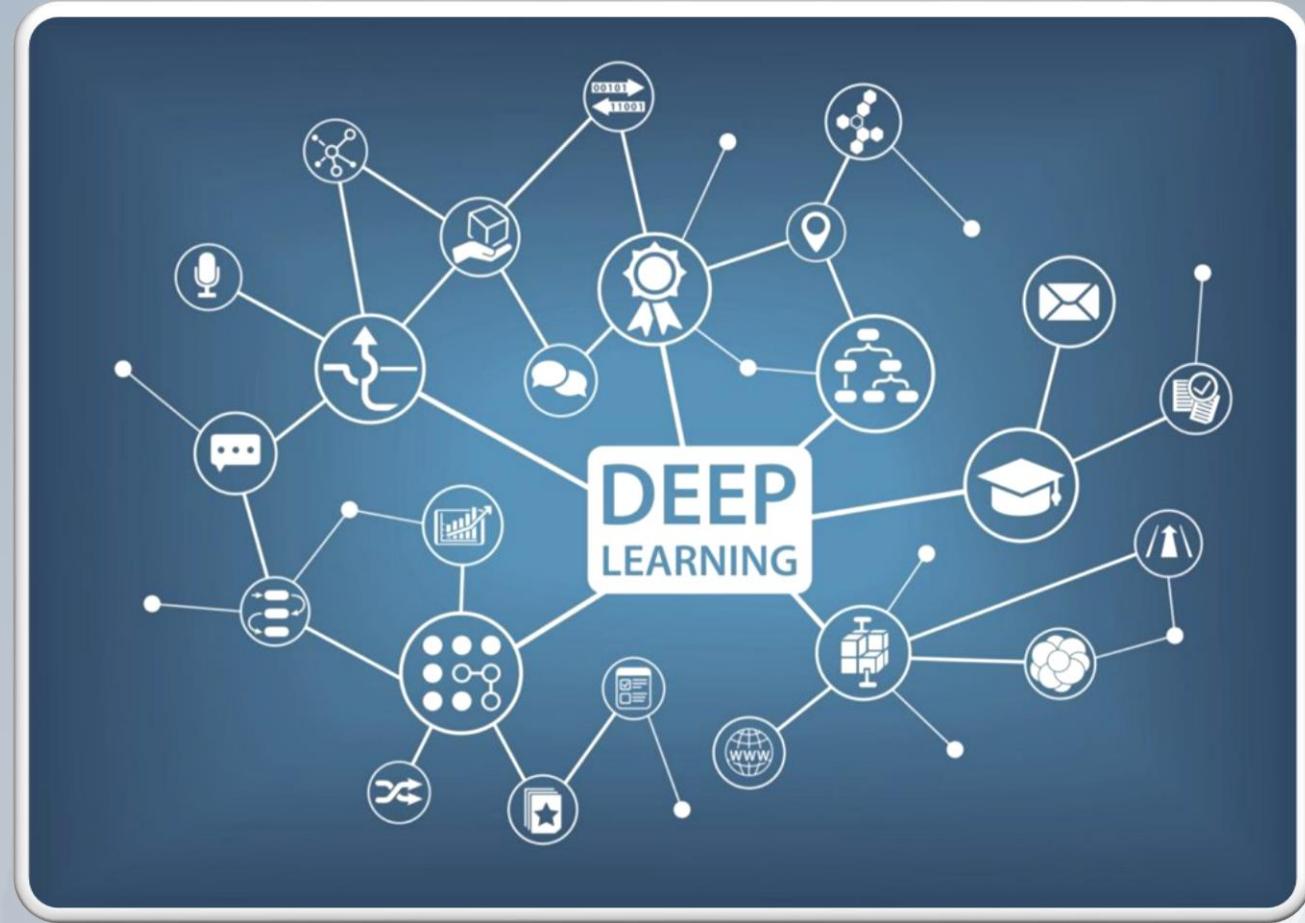
- Random Forest
- Gradient Boosting hands on
- Hands-on modelling of real-time problems (using Python and Scikit-learn)
- Real time application with Pros & Cons
- UNSUPERVISED ALGORITHMS IN MACHINE LEARNING (K-MEANS, K-MEANS++, HIERARCHICAL CLUSTER)
 - Unsupervised Learning: Clustering techniques
 - K means
 - K means++
 - Hierarchical Cluster
 - Math Behind the model

UNSUPERVISED LEARNING ALGORITHMS + END TO END HANDSON

Usage of K means, ++, Hierarchical clustering for the model with handson

- Hands-on modelling of real-time problems (using Python and scikit-learn)
- Test on every models
- Hackathon including comparision of the accuracy
- Quiz with Q&A
- Execution of Projects using different domain use cases such as ...
- Credit card data, Retail data, Market Data, Telecom Churn data
- Banking transaction data, customer cart data
- Air Carrier data, Medical Data etc.

Let's Deep Dive into the World of Deep Learning, AI & Text Mining



Deep Learning And Neural Networks

DEEP LEARNING ALGORITHMS

Analysis of differential layers in Deep learning with different data set of the real-time domains

- DEEP LEARNING AND NEURAL NETWORKS
 - Demystifying Deep Learning
 - A case study on how DL could change the scope of predictions and decisioning
 - Neural Network Architecture & Basics
 - Output vs hidden layers
 - Multilayer Perceptron
 - Linear vs nonlinear networks
 - **TensorFlow and Keras Implementation**
 - **Regression - Hand-on Exercise on Boston Housing**
 - **Classification hands on Exercise on Breast Cancer Prediction**
 - **Hyper parameter Tuning**
 - **Ensemble Neural Network**

NEURAL NETWORKS DEEP DIVE

Usage of Differential advanced libraries for the Neural networks with hands-on Exercises

- NEURAL NETWORKS
 - Deep Neural Networks
 - Understanding feature extractions by DL
 - Understanding Feed-forward neural networks
 - Artificial Neural Networks (ANN)
 - Structure of ANN
 - Types of ANN
 - Real time implementation of ANN
 - Convolutional Neural Networks (CNN)
 - Pre-Trained Model
 - Yolo Object Detection
 - Transfer Learning
 - Data Augmentation

NEURAL NETWORK END TO END PROJECTS

Implementation of the Neural Networks using the differential data sets

- Tensorboard
- Advanced CNN
- **Image Processing real time hands on in Deep Learning applied to Images using CNN**
- **Hands on - Predicting mnist dataset**
- **Hands on - Predicting Fashion Apparels**
- NEURAL NETWORKS
 - RNN Tensor Flow for Neural Networks & Deep Learning
 - RNN real time implementation with samples
 - Long Short Term Memory (LSTM)

Deep Learning And Neural Networks

TEXT MINING ALGORITHMS

Learn the interesting text mining algorithms for chat, voice to text converted datasets

- **Real time hands-on implementation of LSTM using domain use cases.**
- **Implementing DL using Keras library in Python**
- **Predicting reuters data classification**
- **AirPassenger Analytics, BitCoin Prediction**
- **Stock data prediction**
- **TEXT MINING**
 - What is NLP, Were it all started?
 - Pre-Processing
 - Web scrapping Text to Numbers

NATURAL LANGUAGE PROCESSING

Execute NLP algorithms with real life examples using algorithms such as NLTK, TextBlob, Spacy etc.

- Bag of Words
- TF-TDF
- Word Embedding
- Word2Vec, Glove
- **Handson with NLTK, TextBlob, Genism, Spacy**

NATURAL LANGUAGE PROCESSING (NLP)

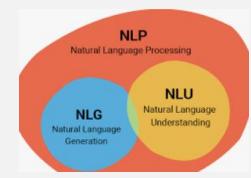
- Sentiment Analysis - Lexicon Models
- Sentiment Analysis - Text Classification
- Text Classification - Machine Learning - Logistic, Random Forest
- Text Classification - Deep Learning - NN, CNN, LSTM

NEURAL NETWORK END TO END PROJECTS

Implementation of the Neural Networks using the differential data sets

- **Text Classification - Pre trained Model, Transfer Learning**
- **Cosine Similarity**
- **Recommendation Engine for Movies**
- **BERT model with realtime implementation**
- **Topic Model - Application - Practical**
- **Handson building a recommendation engine for IMDB Movies**
- **Image Caption Generator**
- **Language Model - Language Translation - English - German**
- **Hands-on activity with Text Blob libraries and accuracy comparison**
- **UnSupervised learning with feature engineering**
- **LDA Algorithm implementation**

Generative AI, Image Generation & Language Generation



Generative AI

Learn the interesting API interference of the Chat bot with Chat GPT

- Generative AI

- Introduction to Gen AI
- Application of Gen AI
- Realtime use cases of Gen AI
- Image to Image Translation
- Text to Image Translation techniques
- Language Generation usecases and techniques
- Gen AI differential methodologies



Image Generation

AI abased image generation features for DIP operations

- Image Generation

- Intro about GANs
- Generative Adversarial Networks Features
- Image generation using GANs
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- Usecases on the Image generation
- Handson exercises using the Generative Adversarial Network Features
- Generators and Discriminators
- Generate images from random noises



Language Generation

Realize the power of Language generation using the Gen AI

- Language Generation

- Intro about NLG
- AI Driven NLG
- Language generation using NLP, NLU & CI
- Language generation differential techniques
- Image to text conversion
- Leveraging power of LLM
- Custom Chabot using LLM
- Question and Answering on private documents using LLM
- Text summarization

Text Mining & Natural Language Processing

Principal Component Analysis for Visualization

Learn the interesting PCA methodology of Visualization

- PRINCIPAL COMPONENT ANALYTICS (PCA)
 - Loading of Data set
 - Standardize the data set
 - PCA Projection to 2D
 - Visualize 2D Projection
 - Explained Variance
 - Limitations of PCA
 - Transformers Learning
 - NLP with attention mechanism
 - Handon exercise with Projects, use cases and case study on Text mining
 - Test, Quiz with Q&A

Model Deployment IN Heroku & AWS CLOUD

Handson on End to end model building, export, deployment and execution in GCP & AWS Cloud

- Heroku
 - Setup
 - Pushing the flask code from github
 - Deploying it in heroku in one click
- Amazon EC2
 - Purpose of EC2?
 - Key Components in EC2
 - EC2 Key Pair
 - EC2 AMI
 - EC2 EBS
 - EC2 Instance
 - EC2 ELB
 - Do's and Dont's with EC2
 - Introduction of cloud services
 - IAAS, PAAS, SAAS
 - How to create a VM instance
 - How to access server

Model Deployment IN AWS & Google CLOUD

Handson on End to end model building, export, deployment and execution in GCP & AWS Cloud

- Building a simple REST application using Python FLASK
- Exposing the Linear Regression ML model as REST API using FLASK
- Exposure of the Cloud deployed application to the Stake holders
- Production Deployment Handson on Deploying the ML model in AWS Cloud and consuming it using a sample application
- Production Deployment Deploying the ML model in Google Cloud Platform and exposing the model to the Clients and Outside world.

CLOUD & DEVOPS Implementation of Model

DEVOPS Components

This module details Docker to create nodes, swarm clustering, scaling, demolishing with AWS implementation of Docker Containers

- **DEVOPS**
 - DevOps Basics
 - Version Control systems
 - Create and use a repository
 - Cloning of Repositories
 - **Hands on on Git commands**
 - **Hands on Init, Push, Pull, Commit etc.,**
 - **Hands on Start and manage a new branch**
 - **Hands on Make changes to a file and push them to GitHub as commits**
 - **Hands on Open and merge a pull request**

Model Deployment IN AWS & Google CLOUD

Handson on End to end model building, export, deployment and execution in GCP & AWS Cloud

- **Working in a collaborative environment with the maintenance of versions**
- **Creating public profile in GIT.**

HACKATHON & PROJECTS

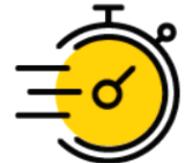
Handson on the Kubernetes orchestration and networking, Introduction to Jenkins & components

- **HACKATHON & PROJECTS**
 - **HACKATHON ON MACHINE LEARNING**
 - **HACKATHON ON DEEP LEARNING**
 - **TEST ON MACHINE LEARNING**
 - **TEST ON DEEP LEARNING**

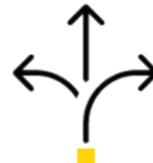
Let's become a Data Science Engineer with the exposure of Hadoop & Spark



Benefits of Considering Hadoop



Fast



Flexible



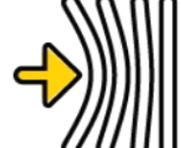
Scalable



Cost-Effective



High Throughput



Resilient to Failure



Cost-Effective



High Throughput



Resilient to Failure

Big Data Hadoop & Py Spark with Eco Systems

Big Data Introduction

End to end Big Data Introduction with Sqoop import and export from databases

- INTRODUCTION TO BIGDATA, HADOOP & SPARK
 - Introduction to Big data
 - Classification
 - Characteristics
 - Different methods of analyzing big data
 - Hadoop HDFS & Map reduce overview.
 - **Hadoop HDFS commands Exercise**
- SNOOP – HDFS –DATA EXTRACTION/ACQUISITION
 - Introduction
 - Why Sqoop
 - Sqoop Import Architecture
 - Sqoop Export Architecture

Exploring Hive an SQL Layer on Hadoop

Perform declarative SQL analysis using Hive Query Language

- Customer & Product Data extraction
- Change Data Capture using Sqoop
- **Export of Complex Event Processed Data using Sqoop Export**

HIVE – SQL & OLAP Layer on Hadoop

- Introduction
- Architecture
- Hive Vs RDBMS
- Create Tables (Managed, external)
- Managed Vs External tables
- **Hands-on on Hive access through Hive Client**

PySpark Essentials with Hands On

Explore the Distributed in memory framework on Spark using Python

- **Handson on Load and manage bulk Data**
- **Handson on Hive Query Language**
- **Handson on Analysis of Data using Hive**
- **Handson on Partitioning (static and dynamic)**
- **PySpark Essentials**
 - Overview
 - Daemons
 - A Spark Standalone Cluster
 - Components & Terminologies
 - Workers
 - Driver Programs
 - Tasks, Executors & Cluster Manager

PySpark Handson with Project

PySpark Handson

- **Py-Spark Hands-on Exercises**
 - RDD Execution model
 - Types of RDDs
 - RDD Operations
 - Transformations and Actions
 - Lazy executions
 - RDD Lineage
 - Loading data in RDD
 - Transformations and Actions
 - Creating the SparkContext
 - REPL Commands
 - Different types of basic operations
 - Language integrated Query methods
 - RDD Operations
 - Text, CSV, JSON, Parquet, ORC, Compression Techniques, Spark SQL

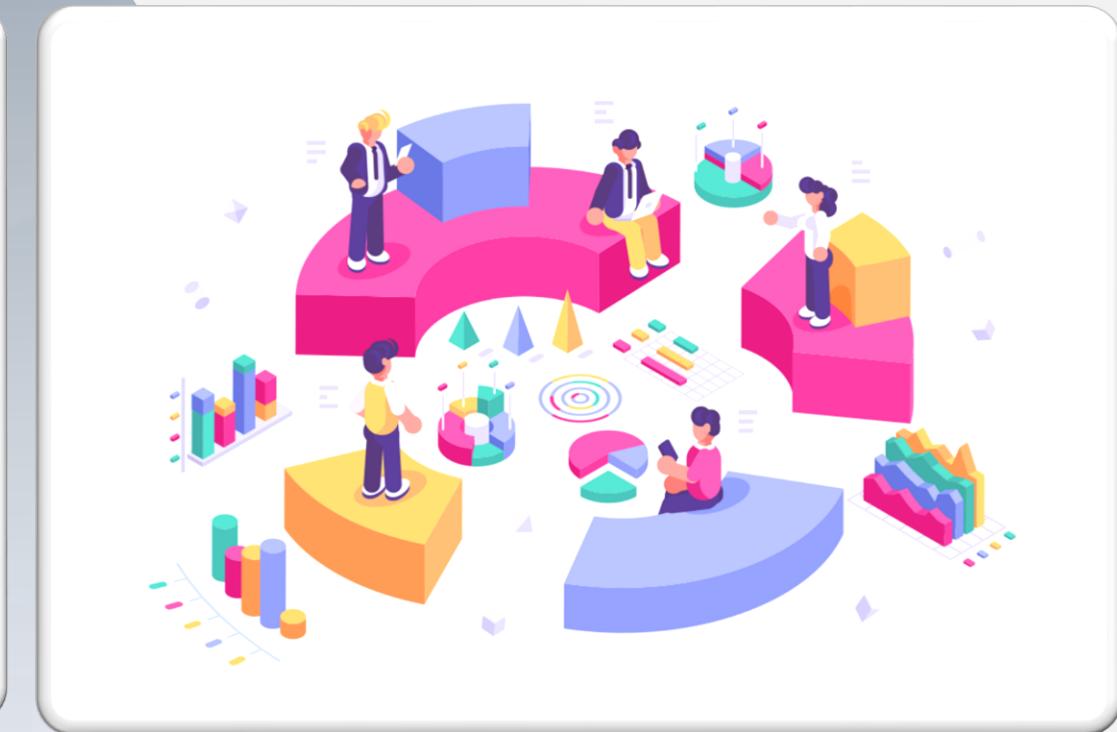
Project Using PySpark

- **End to End Project on PySpark**
- **Customer and Product dataset**
- **Serialization and deserialization of datasets**
- **Project Execution**

Performance Tuning & Interview Discussion

- Performance tuning with in memory tunables of pyspark
- Interview question discussion
- Test and Hackathon on BigData
- Project Execution

PRESENTATION LAYER – DATA VISUALIZATION & DASHBOARD



Visualization Basics

Understand the art of creating visualizations, charts, maps, Dashboards using Tableau

- **VISUALIZATION & DASHBOARD**
 - Art of visualizing Data
 - Types of Visualization
 - How to decide the right visualization
 - Connecting to data
 - Trend lines
 - Reference lines
 - Statistical analysis in tableau
 - Data Strategy
 - Native support for databases
 - Joining multiple tables in tableau
 - Custom SQLs
 - Building of Dashboard invoking the machine learned dataset.

Visualization End to End Hands on

Learn End to end practices of building Visualizations and Dashboards using Tableau

• VISUALIZATION HANDS ON

- How are my Sales spread over geography and which region tops the most?
- What are the categories which are giving me good profit? Which subcategory should i be concentrating more?
- Which products should i be investing more? Show me the bottom 10 products by Sales
- How am I trending over time on Sales and Profit?
- Exploratory data analysis with Tableau.
- Connecting JSON with Tableau.
- Connecting tableau with Oracle and creating dashboards from them

Additional Engagements

Get Ready for the job and Interview with extra mile of efforts

- **Resume Building**
- **Mock Interviews**
- **Project execution**
- **Presentation**
- **Attendance of Test**
- **Quiz Engagements**
- **Insights on business use cases**
- **Recap of Components**
- **Rewards & Awards**
- **Certifications**
- **Blogging**

A Great News!!!

We are Glad to announce that this course is now revolutionized with the next Gen Advanced AI to provide a Game Changing breakthrough experience that help you master and evolve with the market needed trending **Search Engines** to **Chat GPT** to **LLMs** to **Generative AI..**

Dive into the cutting-edge world of Large Language Models (LLMs) and Generative AI & position yourself at the forefront of technological innovation with our comprehensive course. AI reshapes our digital landscape, seize the opportunity to lead the charge into the next wave of breakthroughs that will redefine how we interact with technology in every aspect of life and it unlocks a treasure trove of career possibilities in an AI-driven world.

Whether you're looking to innovate, create, or revolutionize the way we live and work, our course is your gateway to making a significant impact in the AI-centric future. Join us, and transform your potential into reality, crafting the future with the power of LLMs and Generative AI.



*A Game Changing course vitalized
to help you Master the Advanced AI
from Search Engines to Chat GPT by
excelling LLMs with GenerativeAI*

Let's enter into the World of Advanced AI - NLP, GenAI, LLM & GPT

GenAI, LLMs, NLP & ChatGPT

Prerequisite: Python, AI & ML Basics knowledge
To join our whatsapp group, scan the below QR

 Are You A DataScientist ?
ML Engineer ?
Data Enthusiast ?
Data Analyst ?
Python Developer ?





*Revolutionize the next Decade
Harnessing the Power of
Generative AI*



*Empower Yourself with
the power of
Large Language Model*



*Indulge in aiding the computers
in comprehending, interpreting &
manipulating human language*



*Drive Beyond Search engines to
ChatGPT, explore the possibilities
of Gen AI & LLMs in the Advanced AI*

Chat GPT



Key Components Covered in Gen AI, LLM & Chat GPT



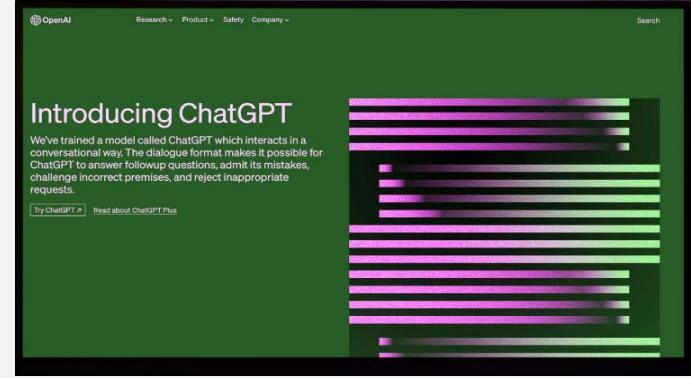
Large Language Models

- ✓ Architecture of a Search Engine
- ✓ How search engines utilize NLP
- ✓ Introduction to Text Processing
- ✓ Basic NLP Tasks and Tools
- ✓ Converting Text to Numbers
- ✓ One Hot Encoding, Bag of Words,
- ✓ TF-IDF : Theory and Applications
- ✓ Introduction to Word2Vec
- ✓ Doc2Vec
- ✓ Contextual Embeddings
- ✓ BERT and its Variants
- ✓ Rule-based Techniques
- ✓ Sentiment Analysis with TextBlob, AFINN, Vader
- ✓ Sentiment Analysis using Machine Learning



Generative AI

- ✓ Deep Learning Approaches for Text Classification
- ✓ Fine-tuning Pre-trained Language Models for Specific Tasks
- ✓ Deep dive into the Transformer architecture
- ✓ Overview of key models: BERT, GPT series
- ✓ Principles of Transfer Learning and Fine-Tuning
- ✓ Hands-on sessions on fine-tuning pre-trained models for custom tasks
- ✓ Introduction to Reinforcement Learning (RL) concepts



Chat GPT

- ✓ Applications of RL in NLP: Dialogue systems, text generation
- ✓ Implementing projects using Transformers
- ✓ Focus on LlamaIndex, LangChain, and OpenAI Assistant API
- ✓ Advanced text processing and generation techniques
- ✓ Application of all learned concepts to solve real-world NLP problems
- ✓ Demonstrating innovation and mastery in creating impactful NLP solutions

Text Mining & NLP

TEXT MINING ALGORITHMS

Learn the interesting text mining algorithms for chat, voice to text converted datasets

- TEXT MINING

- What is NLP, Were it all started?
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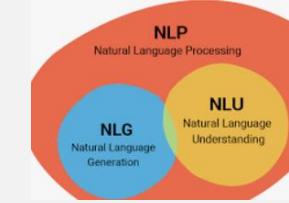


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- Text Classification - Machine Learning - Logistic, Random Forest
- Text Classification - Deep Learning - NN, CNN, LSTM
- Text Classification - Pre trained Model, Transfer Learning
- Cosine Similarity
- Recommendation Engine for Movies



NLP Handson

Implementation of the NLP Algorithms using differential data sets

- BERT model with realtime implementation
- Topic Model - Application - Practical
- Handson building a recommendation engine for IMDB Movies
- Image Caption Generator
- Language Model - Language Translation - English - German
- Hands-on activity with Text Blob libraries and accuracy comparison
- UnSupervised learning with feature engineering
- LDA Algorithm implementation

Classification & Response Generation

Learn the supervised learning & the notion of creating Dialog Flow

- **Foundations of NLP**
 - Architecture of a Search Engine
 - How search engines utilize NLP
 - Introduction to Text Processing
 - Basic NLP Tasks and Tools
- **Text Representation Techniques**
 - Converting Text to Numbers
 - One Hot Encoding, Bag of Words,
 - TF-IDF: Theory and Applications
- **Word Embedding & Language Models**
 - Introduction to Word2Vec
 - Doc2Vec
 - Contextual Embeddings:
 - BERT and its Variants



Text Generation & Translation

Meta capabilities of LLMs, casting, text translation from one language to another

- **Sentiment Analysis**
 - Rule-based Techniques
 - Sentiment Analysis with TextBlob, AFINN, Vader
 - Sentiment Analysis using Machine Learning
- **Advanced Text Classification**
 - Deep Learning Approaches for Text Classification
 - Fine-tuning Pre-trained Language Models for Specific Tasks
- **Understanding Transformers & Model Architectures**
 - Deep dive into the Transformer architecture
 - Overview of key models: BERT, GPT series
 - Principles of Transfer Learning and Fine-Tuning



Knowledge Answering

Developing the Knowledge Intensive NLP (KI-NLP) with self contained KB unpinned by semantic search

- **Fine-Tuning and Transfer Learning in NLP**
 - Hands-on sessions on fine-tuning pre-trained models for custom tasks
- **Fine-Tuning and Transfer Learning in NLP**
 - Introduction to Reinforcement Learning (RL) concepts
 - Applications of RL in NLP: Dialogue systems, text generation
- **Integrating Advanced NLP Techniques**
 - Implementing projects using Transformers
 - Focus on LlamaIndex, LangChain, and OpenAI Assistant API
 - Advanced text processing and generation techniques

Generative AI, Image Generation & Language Generation



Generative AI

Learn the interesting API interference of the Chat bot with Chat GPT

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AI abased image generation features for DIP operations

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 - Image to text conversion
 - Leveraging power of LLM
 - Custom Chabot using LLM
 - Question and Answering on private documents using LLM
 - Text summarization

Large Language Models (LLMs)

Explore the Transformer Architecture from the inside out to experience the Large Language Models

The Transformer

- What is Transformer in LLM
- The Transformer and Self-Attention
- Training a BART-style transformer from scratch
- Coding Self-Attention from Scratch

From GPT to GPT-2

- Unsupervised Pre-Training
- Train Nano-GPT from scratch

All out GPT to GPT3 Generative Pre-Trained Transformer

From GPT-2 to GPT-3

- What is GPT
- Purpose of GPT
- Search Engine vs GPT
- Supervised Fine-Tuning
- Prompt Engineering
- Generative Fine-Tuning of GPT-2 to write SQL code
- [Optional] Zero-shot and few-shot prompting



Fine Tuning LLM

Quantization and PEFT-LoRA

- What is Parameter Efficient Fine Tuning (PEFT)
- Prompt Engg. with existing model
- Creating a new model with PEFT
- Fine tuning of PEFT basics
- Methods for Efficient LLM Loading and Fine-Tuning
- Fine-tuning a leading Open LLM for Generative tasks

Prompt Engineering with LLMs

All About Prompt Engineering & Tuning

Prompt Engineering & Instruction Tuning

- What is Prompt Engineering
- Purpose of Prompt Engineering
- Deepdive into Prompt Engineering & its application
- How to write, refine and optimize the Gen AI using prompt engineering
- Aligning models to follow instructions
- Instruction-Tuning Llama 2

Reinforcement Learning with Human Feedback data (RLHF)

Reinforcement Learning with Human Feedback (RLHF)

- What is RLHF
- How to apply RLHF
- Gathering data and training the model and finetuning
- Baseline evaluation of Zephyr-7B on RealToxicityPrompts
- Training a BERT-style rewards model
- PPO Training of Zephyr-7B to reduce toxicity



Reinforcement Learning with AI (RLAIF)

Reinforcement Learning with AI Feedback (RLAIF)

- All about RLAIF
- Mechanics of RLAIF
- Traditional vs AI based
- Role of RLAIF in AI & LLMs
- Using SL-CAL Model to Create a Harmlessness Dataset
- [Optional] PPO with Pre-Trained Base-Model against Reward Model

Lang chain in LLMs



Training LLM

Frontiers of LLM Engineering

- How to train the LLM
- Data Gathering, Cleaning, Tokenize & producing the output
- Supervised Fine Tuning
- State of AI
- MoE Architecture
- SLMs & DPO
- Train your own custom LLM



LangChain Kickstart

LangChain

- Introduction to LangChain
- Setting Up the Environment: LangChain, Python-dotenv
- ChatModels: GPT-3.5-Turbo and GPT-4
- Caching LLM Responses
- LLM Streaming
- Prompt Templates
- ChatPrompt Templates
- Simple Chains
- Sequential Chains



Langchain Agents

LangChain Agents

- Introduction to LangChain Agents
- Input reception, LLM processing
- Plan execution & Output
- LangChain Agents in Action: Python REPL
- LangChain Tools: DuckDuckGo and Wikipedia
- Creating a ReAct Agent
- Testing the ReAct Agent

Vector DB, RAG, LlamaIdx & OpenAI in LLMs

Vector DataBase

Vector Database

- Short Recap of Embeddings
- Introduction to Vector Databases
- Authenticating to Pinecone
- Working with Pinecone Indexes
- Working with Vectors
- Namespaces
- Splitting and Embedding Text Using LangChain
- Inserting the Embeddings into a Pinecone Index
- Asking Questions (Similarity Search)

Retrievial Augumented Generation Explained - RAG Model

RAG Product

- How RAG helps LLM
- All about ChatGPT
- Building a Custom ChatGPT App with LangChain From Scratch
- Building a Front-End for the Question-Answering App Using Streamlit
- Summarizing With LangChain and OpenAI



LLamaIndex & OpenAI

LlalaIndex

- Introduction to LlalaIndex and LLM applications
- LlalaIndex dive in deeper
- Creating indexes with LlalaIndex
- Querying with LlalaIndex

OpenAI

- All about Open AI
- Creating the custom chatbot using Assistant API

CLOUD & DEVOPS Implementation of Model

DEVOPS Components

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Google Cloud Platform



HEROKU

HACKATHON & Deployment

Handson on the Kubernetes orchestration and networking, Introduction to Jenkins & components

- **HACKATHON & PROJECTS**
 - HACKATHON ON GenAI
 - HACKATHON ON NLP
 - Building a simple REST application using Python FLASK
 - Exposure of the Cloud deployed application to the Stake holders
 - Production Deployment Handson on Deploying the LLM models in AWS Cloud and consuming it using a sample application

End to End Projects Highlights

- ✓ *End to End integration BigData, Data Analytics & Visualization projects*
- ✓ Linear Regression on sales by spending their Advertisement on different streams
- ✓ Linear Regression on US Housing Price
- ✓ Logistic Regression
- ✓ Telecom - Churn prediction of customers based on past data.
- ✓ Create a model to predict the expectation of the telecom customer expected to disconnect or leave the service.
- ✓ Logistic Regression to predict the Breast cancer probability in the medical domain
- ✓ Demo on Titanic dataset prediction on who will survive using Logistic Regression
- ✓ Time Series Forecasting
- ✓ Forecasting air carrier traffic in US
- ✓ Random forest Prediction on Lending Club data set
- ✓ AdaBoost Prediction on pima-indians-diabetes data
- ✓ Predicting median value of owner occupied homes
- ✓ Chat bots and NLP with IBM Watson Overview.
- ✓ Customer Transaction batch acquisition and Processing.
- ✓ Twitter Sentiment Analysis.
- ✓ Weblog analysis.
- ✓ Sales prediction with Exploratory Data Analysis.



Projects

Key Stuffs behind the success that provides real experience...



THANK YOU

Instructor Profile

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