Full Stack Data Science BootCamp 2.0

This is a full stack data science course with a live mentor-led certification programme and a full-time one-year internship provided by iNeuron intelligence private limited, where you will learn all the stack required to work in the data science, data analytics, and big data industries, including machine learning operations and cloud infrastructure, as well as real-time industry project and product development with the iNeuron product development team, and you will contribute on various levels.

Mode: self-paced **Language: English** **Duration:**

What you'll learn:

- Python
- Stats
- Machine learning
- Deep learning
- Computer vision
- Natural language processing
- Data analytics
- Big data
- Ml ops
- Cloud
- Real Time projects
- Architecture
- Domain wise project
- Databases
- Negotiations skills
- Mock interview
- Interview preparation
- Resume building after every module

Course Features:

- Full stack Data Science master?s certification
- Job guarantee otherwise refund
- One year of internship Anytime
- Online Instructor-led learning: Live teaching by instructors
- 56 + hands-on industry real-time projects.
- 500 hours live interactive classes.
- Every week doubt clearing session after the live classes.
- Lifetime Dashboard access
- Doubt clearing one to one
- Doubt clearing through mail and skype support team
- Assignment in all the module
- Quiz in every module
- A live project with real-time implementation
- Resume building Anytime

- Career guidance Anytime
- Interview Preparation Anytime
- Regular assessment
- Job Fair and Internal Hiring
- Mock Interview Anytime

Requirements:

- System with minimum i3 processor or better
- At least 4 GB of RAM
- Working internet connection
- Dedication to learn

Pricing:

- 17700 INR
- 240 USD

Course Curriculum:

1. Welcome to the Course

- Course Overview
- Dashboard Introduction

2. Python Fundamentals

- Python Basic
- String, List, Indexing
- Tuple, Set & Dict
- If, Else & For Loop
- For Loops & While loops
- Python Program Discussion in loops
- Function Part - 1
- Function Part - 2

3. Advanced Python

- Iterator Generator & File System
- Exception handling Class 1 part 1
- Exception handling Class 1 part 2
- Exception handling Class 2
- Module & Packages
- OOPS Part 1
- OOPS Part 2
- OOPs Concepts - Polymorphism

4. Working with Databases & Python

- SQL Part 1
- SQL Part 2
- OOPS Discussion
- Introduction to MongoDB

- Working with Python & MongoDB Part1
- Working with Python & MongoDB Part2
- SQL lite, map, reduce, filter,zip

5. Working with Pandas & Numpy

- Introduction to Pandas
- Working with Pandas
- Pandas Data Analysis Part 1
- Pandas Data Analysis Part 2
- Pandas and Numpy
- Numpy methods

6. Working with Graphs & Charts

- Introduction to Graphs & Charts
- Working with Graphs in Python

7. API

- API Testing

8. Python Projects

- Flask End to End Project
- Review Scrapper
- Image Scrapper and deployment on Heroku, AWS and Azure

9. Statistics

- Introduction to Stats - Day 1
- Stats - Day 2
- Extra doubt session
- Stats - Day 3
- Stats - Day 4
- Stats - Day 5

10. EDA & Feature Engineering

- Introduction to EDA
- Doubt Clearing session
- EDA and Feature Engineering

11. Machine Learning

- Linear Regression
- Ridge Lasso Regression, Elastic & Logistic Regression
- Naive Bayes Algorithm and practical implementation of Rigde Lasso and Logistic Regression
- Logistic Practical, SSVM, SVR
- Decision Tree Classification
- Random Forest & SVM
- Adaboost
- Gradient Boosting
- Clustering
- Introduction to Machine learning

- Linear Regression
- Linear Regression live coding demonstration part-1
- Linear Regression live coding demonstration part-2
- Project Admission Prediction, Lasso, Ridge & Elastic Net
- Project deployment in Heroku, Azure & AWS
- Logistic Regression
- Logistic Regression implementation
- Decision Tree
- Decision Tree Part 2 , Ensemble Tech, Random Forest & Boosting
- KNN and SVM
- Decision Tree Practical Implementation
- Decision Tree Live Coding & Grid Search
- Grid Search, Bagging Classifier & Random Forest
- KNN, SVC, SVR & Stacking
- Clustering
- Clustering and PCA
- PCA practical, DBSCAN and Naive Bayes
- XG Boost, NLTK & TF-IDF

12. Machine Learning End to End Project

- Machine learning project
- Machine learning project
- ML End to End project Pipeline Explaination
- ML Project Explaination along with GitHub and Docker
- Machine Learning Pipelines Live Coding Part-1
- Machine Learning Pipelines Live Coding Part-2
- 2nd July Live Class
- Machine Learning Pipelines Live Coding Part-2
- Revision Class
- Model training, evaluation and push
- Model training, evaluation and push
- Revision

13. PCA in ML

- PCA
- PCA Implementation

14. NLP for Machine Learning

- NLP in ML
- Spam Classification

15. Time Series Analysis

- Introduction to Time Series
- Time Series Implementation

16. Stats

Introduction

Different types of Statistics

Population vs Sample

Mean, Median and Mode

Variance, Standard Deviation

Sample Variance why n-1

Standard Deviation

Variables

Random Variables

Percentiles & quartiles

5 number summary

Histograms

Gaussian - Normal distribution

Standard Normal distribution

Application Of Zscore

Basics Of Probability

Addition Rule In Probability

Multiplication rule in probability

Permutation

Combination

Log Normal Distribution

Central Limit theorem

Statistics - Left Skewed And Right Skewed Distribution And Relation With Mean, Median And Mode

Covariance

Pearson And Spearman Rank Correlation

What is P Value

What is Confidence Intervals

How To Perform Hypothesis Testing - Confidence IntervalZ Test Statistics Derive Conclusion

Hypothesis testing part 2

Hypothesis testing part 3

Finalizing statistics

17. ML Projects

Detailed Project Report explanation

Project :- Wafer Fault Detection Part 1

Project :- Wafer Fault Detection Part 2

Deployment in Heroku using docker and circleci

18. ML Project 1 :- Fault detection in wafers based on sensor data

Introduction

The problem statement and Data Description

The Application Flow

Ingestion and Validation Part1

- Validation Part2
- DB Operations
- Data Preprocessing
- Clustering
- Model Selection and Tuning
- Prediction
- Deployment

19. ML Project 2 :- Cement Strength Prediction

- Introduction
- The Problem Statement and Data Description
- The Application Flow
- Code Intro and Logging
- Validation and Transformation
- DB Operations
- Data Preprocessing
- Clustering
- Model Selection and Tuning
- Prediction
- Deployment

20. ML Project 3 :- Credit Card Defaulters

- Introduction
- The Problem Statement and Data Description
- The Application Flow
- Code intro and Logging
- Validation and Transformation
- DB Operations
- Data Preprocessing
- Deployment

21. ML Project 4 :- Forest Cover

- Introduction
- The Problem Statement and Data Description
- Application Flow
- Code intro and Logging
- Validation and Transformation
- DB Operations
- Data Preprocessing
- Clustering
- Model Selection and Tuning
- Prediction
- Deployment

22. ML Project 5 :- Income Prediction

- Introduction
- The Problem Statement and Data Description
- The Application Flow
- Code intro and Logging
- Validation and Transformation
- DB Operations
- Data Preprocessing
- Clustering
- Model Selection and Tuning
- Prediction
- Deployment

23. ML Project 6 :- Insurance Fraud Detection

- Introduction
- The Problem Statement and Data Description
- The Application Flow
- Code Intro and Logging
- Validation and Transformation
- DB Operations
- Data Preprocessing
- Clustering
- Model Selection and Tunning
- Prediction
- Deployment
- The Problem Statement and Data Description

24. ML Project 7 :- Mushroom Classification

- Introduction
- The Application Flow
- Code Intro and Logging
- Validation and Transformation
- DB Operations
- Data Preprocessing
- Clustering
- Model Selection and Tuning
- Predictions
- Deployment

25. ML Project 8 :- Phishing Classifier

- Introduction
- The Application Flow
- Code intro and Logging
- Validation and Transformation
- DB Operations

- Data Preprocessing
- Clustering
- Model Selection and Tuning
- Prediction
- Deployment

26. ML Project 9 :- Thyroid Detection

- Introduction
- The Problem Statement and Data Description
- The Application Flow
- Code intro and Logging
- Vallidation and Transformation
- DB Operation
- Data Preprocessing
- Clustering
- Model Selection and Tuning
- Prediction
- Deployment

27. ML Project 10 :- Visibility Climate

- Introduction
- The Problem Statement and Data Description
- The Application Flow
- Code intro and Logging
- Validations and Transformation
- DB Operations
- Data Preprocessing
- Clustering
- Model Selection and Tuning
- Prediction
- Deployment

28. DL ANN - Introduction

- Introduction to Deep Learning
- Importance of Deep learning
- Why you should study Deep Learning? (Motivation)
- ANN
- The first Artificial Neuron

29. DL ANN - Perceptron

- Overview of Perceptron
- More about Perceptron
- Perceptron implementation using python - 1
- Perceptron implementation using python - 2
- Perceptron implementation using python - 3

- Perceptron implementation using python - 4
- Perceptron implementation using python - 5
- Perceptron implementation using python - 6
- Perceptron implementation using python - 7
- Python scripting & modular coding for Perceptron
- Python logging basics and docstrings

30. DL ANN -1

- Multilayer Perceptron
- Forward propagation
- Why we need Activation function?
- ANN implementation using tf.keras - 1
- ANN implementation using tf.keras - 2
- ANN implementation using tf.keras - 3
- ANN implementation using tf.keras - 4
- ANN with Callbacks | Tensorboard | Early Stopping | Model Checkpointing

31. DL ANN - 2

- Vector
- Differentiation
- Partial differentiation
- Maxima and minima concept
- Gradient descent basics
- In-depth understanding of Gradient descent with mathematical proof

32. DL ANN - 3

- Chain rule
- Back propagation

33. DL ANN - 4

- General problems in training Neural Networks
- Vanishing and Exploding gradients
- Activation Function Basics
- Weight initialization
- Activation Functions - 1
- Activation functions - 2
- Activation functions - 3
- Transfer learning
- Batch normalization -1
- Batch normalization -2
- Batch normalization -3

34. DL ANN - 5

- Introduction to fast optimizers
- Momentum optimization
- NAG

- Elongated bowl problem | AdaGrad
- RMSProp
- Adam
- Loss functions
- Regularization
- Dropout

35. Computer Vision - Introduction

- Introduction to Course
- Course Overview
- Installing Anaconda, Pycharm & Postman
- Working with Conda Envs
- Pycharm Introduction
- Pycharm with Conda
- Pycharm with venv
- Pycharm with Pipenv

36. Computer Vision - CNN Foundations

- Why CNN? Building an Intution for CNN
- CNN, Kernels, Channels, Feature Maps, Stride, Padding
- Receptive Fields, Image Output Dimensationality Calculations, MNIST Dataset Explorations with CNN
- MNIST CNN Intutiton, Tensorspace.js, CNN Explained, CIFAR 10 Dataset Explorations with CNN
- Dropout & Custom Image Classification Dog Cat Dataset
- Deployment in Heroku, AWS, Azure

37. Computer Vision - CNN Architectures

- LeNet-5
- LeNet-5 Practical
- AlexNet
- AlexNet Practical
- VGGNet
- VGG16 Practical
- Inception
- Inception Practical
- ResNet
- Resnet Practical

38. Computer Vision - Data Augmentation

- What is Data Augmentation?
- Benefits of Data Augmentation

39. Computer Vision - Object Detection Basics

- What is Object Detection?
- Competitions for Object Detection
- Bounding Boxes
- Bounding Box Regression

- Intersection over Union (IoU)
- Precision & Recall
- What is Average Precision?

40. Computer Vision - Object Detection Architectures

- Object Detection Family
- RCNN
- RCNN Network Architecture
- Cons of RCNN
- FAST RCNN
- FAST RCNN Network Architecture
- FASTER RCNN
- FASTER RCNN Network Architecture
- YOLO
- YOLO Architecture
- YOLO Limitations

41. Computer Vision - Practicals Object Detection using Tensorflow 1.x

- Introduction to TFOD1.x
- Using Google Colab with Google Drive
- Installation of Libraries in Colab
- TFOD1.x Setup in Colab
- Visiting the Model Zoo
- Inferencing in Colab
- Inferencing in Local
- Important Configurations Files
- Webcam Testing

42. Computer Vision - Practicals Training a Custom Cards Detector using Tensorflow1.x

- Custom Model Training in TFOD1.x
- Our Custom Dataset
- Doing Annotations or labeling data
- Selection of Pretrained Model from Model Zoo
- Files Setup for Training
- Let's start Training in Colab
- Export Frozen Inference Graph
- Inferencing with our trained model in Colab
- Training in Local
- Inferencing with our trained model in Local

43. Computer Vision - Practicals Creating an Cards Detector Web App with TFOD1

- Code Understanding
- WebApp Workflow
- Code Understanding
- Prediction with Postman

- Debugging our Application

44. Computer Vision - Practicals Object Detection using Tensorflow 2.x

- Introduction to TFOD2.x
- Using the Default Colab Notebook
- Google Colab & Drive Setup
- Visting TFOD2.x Model Garden
- Inference using Pretrained Model
- Inferencing in Local with a pretrained model

45. Computer Vision - Practicals Training a Custom Chess Piece Detector using Tensorflow2

- Custom Model training in TFOD2.x
- Our Custom Dataset TF2
- File Setup for Training
- Let's start Training
- Let's start Training
- Stop Training or resume Training
- Evaluating the trained model
- Convert CKPT to Saved Model
- Inferencing using the Custom Trained Model in Colab
- Inferencing using the Custom Trained Model in Local PC

46. Computer Vision - Practicals Creating an Chess Piece Detector Web App with TFOD2

- Creating a Pycharm project & Environment Setup TF2
- Application Workflow
- Code understanding
- Testing our App with Postman
- Debugging our Application

47. Computer Vision - Practicals Object Detection using Detectron2

- Introduction to Detectron2
- Detectron2 Colab Setup

48. Computer Vision - Practicals Training a Custom Detector using Detectron2

- Detectron2 Custom Training
- Exploring the Dataset
- Registering Dataset for Training
- Let's start Training
- Inferencing using the Custom Trained Model in Colab
- Evaluating the Model

49. Computer Vision - Practicals Creating an Custom Detector Web App with Detectron2

- Creating a Pycharm project & Environment Setup Detectron2
- Application Workflow
- Code understanding
- Testing our App with Postman
- Debugging our Application

50. Computer Vision - Practicals Object Detection using YoloV5

- Introduction to YoloV5
- YoloV5 Colab Setup
- Inferencing using Pre Trained Model

51. Computer Vision - Practicals Training a Custom Warehouse Apparel Detector using YoloV5

- Custom Training with YoloV5
- Exploring the Dataset
- Doing Annotations or labeling data
- Setting up Google Colab & Drive
- Let's start Training
- Inferencing using the Custom Trained Model in Colab

52. Computer Vision - Practicals Creating an Warehouse Apparel Detector Web App with YOLOV5

- Creating a Pycharm project & Environment Setup Yolo
- Application Workflow
- Code understanding
- Testing our App with Postman
- Debugging our Application

53. Computer Vision - Image Segmentation

- Segmentation Introduction
- From Bounding Box to Polygon Masks
- What is Image Segmentation?
- Types of Segmentation
- MASKRCNN
- MASK RCNN Architecture

54. Computer Vision - MASK RCNN Practicals with TFOD

- Segmentation with TFOD1.x
- Local Setup MASKRCNN
- Exploring the Dataset
- Data Annotation
- Model Selection
- Files Setup for Training
- Model Training
- Export Frozen Inference Graph
- Model Prediction

55. Computer Vision - MASKRCNN practical with Detectron2

- Introduction to Detectron2
- Detectron2 Colab Notebook
- Exploring the Model Zoo
- Detecron2 Colab Setup
- Custom Training with Detectron2
- Exploring our Dataset

- Data Annotation
- Data Preparation
- Setup for Training
- Let's start Training
- Inferencing using the Custom Trained Model in Colab
- Evaluating the Model

56. Computer Vision - Face Recognition Project

- Introduction to Project
- Requirement Gathering
- Techstack Selection
- Project Installation
- Project Demo
- Project Workflow
- Core Components of the Application
- Data Collection Module
- Generate Face Embeddings
- Training Face Recognition Module
- Prediction Pipeline
- Entry point of the Application
- Application Workflow
- Debugging our Application

57. Computer Vision - Object Tracking Project

- Object Tracking project
- Project Installation Tracking
- Project Demo
- Code Understanding

58. Computer Vision - GANS

- Introduction to GANS
- GAN Architecture
- GAN PRACTICALS Implementation

59. Computer Vision Project - Traffic Vehicle Detection

- Introduction to Vehicle Detection project
- Requirement Gathering
- Framework Selection
- Detailed Project Workflow
- Data Collection Scrap
- Data Preparation
- Data augmentation augmenter
- Data Annotations
- Model Training
- Creating a Pycharm project & Environment Setup TVD

- WebApp Workflow
- Code Understanding
- Prediction with Postman
- Debugging our Application

60. Computer Vision Project - Helmet Detection

- Introduction to Helmet Detection project
- Requirement Gathering
- Techstack Selection
- Detailed Project Workflow
- Data Collection
- Data Preparation
- Data Augmentation
- Data Annotations
- Model Training
- Creating a Pycharm project & Environment Setup HD
- WebApp Workflow
- Code Understanding
- Prediction with Postman
- Debugging our Application

61. Computer Vision Project - Fashion Apparel Detection

- Introduction to Fashion Apparel Detection project
- Requirement Gathering
- Techstack Selection
- Detailed Project Workflow
- Data Collection
- Data Preparation
- Data Augmentation
- Data Annotations
- Model Training
- Creating a Pycharm project & Environment Setup FAD
- Project Demo
- WebApp Workflow
- Code Understanding
- Prediction with Postman
- Debugging our Application

62. Computer Vision Project - Image TO Text OCR

- Introduction to Project
- Project Installation OCR
- Project Demo
- Application Workflow
- Code Understanding

- Debugging our App
- Different OCR's available

63. Computer Vision Project - Shredder System

- Introduction to Shredder Systems
- Requirement Gathering
- Techstack Selection
- Data Collection
- Data Augmentation
- Data Preparation
- Data Annotation
- Model Selection from Zoo
- Model Training
- Creating a Pycharm project & Environment Setup SS
- Application Workflow
- Project Demo
- Code Understanding
- Debugging our Application
- Project Workflow
- Project Workflow

64. Computer Vision Project - Automatic Number plate Recognition with TFOD1.x

- Introduction to ANPR Project
- Requirement Gathering
- Tech Stack Selection
- Data Collection
- Data Augmentation
- Data Preparation
- Data Annotation
- Model Selection From Zoo
- Model Training
- Creating a Pycharm project & Environment Setup ANPR
- Application Workflow
- Create Google OCR API Key
- Project Demo
- Code Understanding
- Debugging our Application

65. NLP Overview

- NLP Overview
- NLP very basic

66. NLP Word Embeddings

- TFIDF
- Word Embeddings Part-1

- Word Embeddings Part-2

67. NLP RNN

- RNN basic
- RNN Implementation

68. NLP LSTM & GRU

- LSTM Introduction
- GRU

69. NLP Attention Based Model

- Encoder Decoder and Attention Mechanism
- Attention All You Need Paper Understanding

70. NLP Transfer Learning in NLP

- GPT and BERT Model

71. NLP Project:- Text to Speech

- Introduction
- Project Setup Text to Speech
- Project Demo
- Code Explanation
- Project Workflow
- Prediction with Postman
- Debugging Application

72. NLP Project:- Speech To Text

- Introduction
- Project Setup Speech To Text
- Project Demo
- Code Explanation
- Project Workflow
- Prediction with Postman
- Debugging Application

73. NLP Project:- Spell Corrector

- Introduction
- Project Setup Spell Corrector
- Project Demo
- Code Explanation
- Project Workflow
- Prediction with Postman
- Debugging Application

74. NLP Project:- Named Entity Recognition

- NER using BERT

75. NLP Project:- Machine Translation & Keyword Spotting

- Machine Translation
- Keyword Spotting

76. NLP Project:- Keyword Extractor & Summarization

- Keyword Extraction
- Extractive Text Summarization

77. NLP project:- Paraphrasing

- Rephrase Project

78. AIOPS Introduction

- Introduction 1
- Introduction 2
- Introduction 3
- Challenges
- AIML Generic Steps

79. AIOPS Linux

- Introduction to Linux
- What is Linux
- Important Pieces in Linux
- Features of Linux
- Evolution of Linux
- Differences between Windows and Linux

80. AIOPS Git

- Git Introduction
- Types of Version Control
- What is Git?
- Why Git?
- Git Installation in Windows
- Git Installation in Linux
- Git Setup
- Git Terminologies
- Repositories in GIT
- Creating Repository
- Checking Repository History
- Doing Commits
- git diff
- git restore
- Tagging
- Branching
- Branching Practicals
- Merging
- Merge Conflicts
- Remote repository
- Cloning Repository
- Working with Remote Repository

- Pushing to Remote Failed in Github
- Personal Access Token Setup in Windows
- Personal Access Token Setup in Linux
- Pull Request
- git Fetch & Pull
- Fork
- Rebasing
- Interactive Rebasing
- Git Rewrite History
- Git Rewrite History continued
- Cherry Picking
- Modify Recent Commits
- Git Revert
- Git Checkout
- Git Reset
- Git Stash
- Git Reflog
- Course Outro

81. AIOPS Docker

- Docker Introduction
- What is Docker?
- Why Docker?
- Benefits of Docker
- What is Container?
- Containers vs VM
- Containers vs Image
- Docker Editions
- What Docker is not?
- Important Terminologies
- Docker Setup in Windows
- Docker Setup in Linux
- Docker Setup in Mac
- Docker Basic Commands part 1
- Docker Basic Commands part 2
- Docker Run Part 1
- Docker Run Part 2
- Docker Images
- Creating a new image
- Environment variables
- Commands & Entrypoints
- Docker Compose

- Voting Application Understanding
- Docker Compose Versions
- Docker Compose Networks
- Voting Application with Docker Run

82. BigData - Introduction to Big Data and Data Engineering

- Big Data Engineering

83. BigData - Introduction to Distributed Systems - Hadoop and MapReduce

- Big Data Engineering Introduction

84. BigData - Map Reduce & YARN

- Big Data Hadoop Map Reduce YARN
- Hadoop Map Reduce Hands On

85. BigData - Hive

- Apache hive

86. BigData - Hive Hands On

- Apache hive Hands On

87. BigData - NoSQL and Hbase

- Big Data HBase
- Hbase hands On

88. BigData - Spark

- Spark - Introduction
- Big Data Engineering using PySpark- RDDs
- Spark hands on - RDD
- Big Data Engineering using PySpark- Core, Internals, Architecture
- Apache Spark Actions_ Transformations
- Apache Spark Caching
- Big Data Engineering using PySpark- Shared Vars , Coalesce Repartition
- Big Data Engineering using PySpark- Dataframes
- Spark hands on - Dataframe
- Spark hands on - Databricks
- Big Data Engineering using PySpark- Catalyst& Tungsten

89. BigData - Spark ML

- Big Data Engineering using PySpark- MLLib
- Spark hands On - Spark ML Lib

90. BigData - Spark Streaming

- Big Data Engineering using PySpark- Streaming Part 1
- Big Data Engineering using PySpark- Streaming Part 2
- Spark hands On - Spark Streaming

91. BigData - Kafka

- Big Data Kafka
- Big Data Kafka Hands on

92. BigData - Apache Airflow - Workflow Management Platform

- Big Data - Airflow
- Big Data Airflow Hands On

93. Big Data Projects

- IoT Sensor data pipeline using Kafka-Spark Streaming
- Product Reccomendation Engine using Kafka-Spark Streaming
- Short Video App Analytics

94. Basic Charts in Power BI

- 2.0 Basic Charts in Power BI Desktop
- 2.1 Column Chart in Power BI
- 2.2 Stacked Column Chart in Power BI
- 2.3 Pie Chart in Power BI
- 2.4 Donut Chart in Power BI
- 2.5 Funnel Chart in Power BI
- 2.6 Ribbon Chart
- 2.7 Include and Exclude
- 2.8 Export data from Visual

95. Working with Maps

- 3.1 Creating a Map in Power BI
- 3.2 Filled Map
- 3.3 Map with Pie Chart
- 3.4 Formatting in Map
- 3.5 Change Background in Map
- 3.6 Map of India in Power BI
- 3.7 Map of Australia in Power BI

96. Tables and Matrix in Power BI

- 4.0 Table and Matrix in Power BI
- 4.1 Creating a Table in Power BI
- 4.2 Formatting a Table
- 4.3 Conditional Formatting in Table
- 4.4 Aggregation in Table
- 4.5 Matrix in Power BI
- 4.6 Conditional Formatting in Matrix
- 4.7 Hirearchies in Matrix
- 4.8 Sub-Total and Total in Matrix
- 4.9 Number Formatting in Table

97. Introduction to tableau

- Tableau Introduction
- Download and Install Tableau
- Tableau Vs Excel

98. Charts - 1

- Column Chart

- Horizontal Bar Chart
- Stacked Column Chart
- Stacked Bar Chart
- Keep Only,Exclude
- Keep Only,Exclude2_Normal
- Publish to Tableau Public

99. Charts - 2

- Pie Chart
- Multiple Pie Chart
- TreeMap_Editing
- Packed Bubble Chart
- Word Cloud OR Word Map
- Formatting payal

100. Charts - 3

- Data Types in Tableau
- Filled Map
- Symbol Maps
- India Map
- Histogram

101. Charts - 4

- Text Table
- Text Table with Multiple Measures
- Measure Names and Measure Values
- Line Chart
- Line Chart with Multiple Measures
- Discrete Vs Continous Line Chart
- Discrete Vs Continuous

102. Charts - 5

- Lollipop Chart
- Line Vs Column Chart
- Dual Axis Chart
- Column vs Shapes
- Bar in Bar Chart

103. SQL

- Database Architecture
- Introduction to SQL
- Constraints
- Data Definition Language (DDL)
- Data Query Language (DQL)
- Data Manipulation Language (DML)
- Joins

- Import Export
- Aggregate Functions
- Order by, Having & Limit Clause
- String Functions
- Datetime functions
- Understanding Regular Expressions
- Nested Queries
- Views
- Stored Procedures
- WindowsFn
- Python-SQL Connectivity

104. Excel

- Introduction to Excel
- Pre-defined functions
- Datetime Funtions
- String functions
- Mathematical functions
- Lookup
- Logical & Error Functions

105. Chatbot - Google Dialog Flow

- What is Chatbot?
- Why Chatbot?
- Types of Chatbot
- Use of Chatbot
- Examples of chatbot
- Chatbot Architecture
- Google Account
- Dialogue Console quick review
- Dialogflow - Agents
- Dialogflow - Create and mange agents
- Dialogflow - Prebuilt Agents
- Dialogflow - Multilingual agents
- Dialogflow - Mega agents
- Dialogflow - Intents
- Dialogflow - Create and manage intents
- Dialogflow - Training Phrases
- Dialogflow - Actions and parameters
- Dialogflow - Responses
- Dialogflow - Rich response messages
- Dialogflow - Default intents
- Dialogflow - Entities

- Dialogflow - Entity options
- Dialogflow - System entities
- Dialogflow - Custom entities
- Dialogflow - Contexts
- Dialogflow - Input and Output contexts
- Dialogflow - Follow-up intents
- Dialogflow - Follow-up intents creation
- Dialogflow - Events
- Dialogflow - Fulfillment
- Dialogflow - Inline editor
- Dialogflow - Webhook service
- Overview
- Create Agent in Dialogflow
- Create Intent and Entities
- Food order Intent
- Why integration required?
- Telegram Integration
- facebook integration
- facebook integration test
- Slack Integration
- Covid-19 chatbot Overview
- Agent & intent creation
- World stats info intent
- webhook code for welcome intent
- Get Stats Covid code
- world Covid code
- Deployment
- Enable webhook
- Summary

106. Chatbot - RASA

- What is Chatbot?
- Why Chatbot?
- What is Rasa?
- Why Rasa?
- Create a Virtual Environment using conda
- Installation of Rasa in Windows
- Introduction to Rasa NLU - Intents and Entities
- Creating Intents & Entities Examples: Training Data
- Rasa NLU File structure
- Defining NLU Pipeline in Config File
- Install RASA-x

- Train our first Rasa NLU model
- Rasa NLU Entity Synonyms & Lookup Tables
- Introduction to Custom Components in RASA NLU
- Introduction of Transfer Learning and Pre-trained Word Embeddings
- Custom Gensim embeddings in RASA
- RASA Core
- Custom Action Defined
- RASA Core-Stories
- Introduction of Dialogue Policies
- Memoization & Mapping Policy
- Machine learning policy
- Priority Policies
- Add intent domain.yml
- Update response
- Add stories.md
- Train model
- Telegram integration
- Facebook integration
- Twilio account
- Whatsapp integration url
- Course summary

107. Chatbot - Amazon Lex

- Introduction
- What is Chatbot?
- Why Chatbot?
- What is Lex?
- Lex supported languages
- Programming Model
- Intent & Slots
- Model Building APIs
- Runtime API Operations
- Managing Messages
- Confidence Score
- Conversation Log
- Built-in Intents
- Built-in Slot Types
- Custom Slot Types
- Sentiment Analysis
- Configuring Lambda functions as fulfillment
- Integration
- Custom Building Chatbot Overview

108. Chatbot - Azure Luis

- Course Introduction
- What is Chatbot?
- Why Chatbot?
- What is LUIS?
- Intent & Utterances
- Prebuilt Domain intent
- Using Entities
- Entity types
- Utterances
- Pattern
- Machine learning features
- Prediction score
- Data management
- LUIS and QnA maker
- CI/CD with Luis
- Overview
- Azure portal setup
- Intent/entity
- Luis App credentials
- Installation
- Code walkthrough
- Bot emulator
- Summary

109. Interview Preparation - Introduction & Induction

- Induction & Course Introduction
- Impact of Data Science in today's world & Roles in Data Science

110. Interview Preparation - Transition Stories

- Transition story
- Transition story
- Transition Story and Resume Discussion

111. Interview Preparation - AI Projects Discussion

- Insurance Fraud Detection
- Forest Cover Classification
- Project Architecture Discussion
- Year Wise Resume Discussion
- Project Architecture Discussion
- Project Architecture Discussion - 2
- Brand Measure Project Discussion
- Project Architecture Discussion - 3
- Megatron Project Discussion

Python Discussion

112. Interview Preparation - Python

Python Discussion

Python Discussion

113. Interview Preparation - Databases

MYSQL and MongoDB Discussion

Interview Question Discussion - 2

114. Interview Preparation - Interview Questions Discussion

Interview Question Discussion

Resume Discussion

Interview Question Discussion - 3

Interview Question Discussion - 4

Interview Question Discussion - 5

115. Interview Preparation - Project Discussion

Vision-Based Attendance System

Face Recognition & Mlops Discussion

Mlops Discussion

Brand Measure Project Discussion

NLP Use Cases Discussion

116. Interview Preparation - Interview Questions Discussions

Interview Question Discussion - 1

Interview Question Discussion - 2

Interview Question Discussion

117. Interview Preparation - General Discussion

Discussion Session - 1

Discussion Session - 2

Instructors:

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4. Sunny Savita

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