



DATA SCIENCE & AI

CERTIFIED PROFESSIONAL

CHOOOLS CONSULTING SERVICES PVT LTD

SATHISH NARAYANAN

CEO & Director

CHOOOLS CONSULTING SERVICES PVT LTD



- 👤 A Global executive with 23+ years of experience.
- 👤 Made his footprint across 6 continents and 40+ cities.
- 👤 A Stanford Alumni & An Indian Statistical Institute Alumni.
- 👤 Project Management Professional -PMI USA.
- 👤 Six Sigma Black belt Professional from American Society for Quality + Supply chain professional from IPSCMI - USA.
- 👤 A lean Six Sigma Master black belt Level1 & L2 -Shell University + Shell Oscar Award winner 2008, 2009.
- 👤 Supply chain professional and Award-winning Supply chain Excellence program with Coca-Cola.
- 👤 Won the prestigious PepsiCo's Productivity framework in 2014 & 2015 as part of MENA - Productivity program with Indra Nooyi.
- 👤 Delivered \$250MM cost savings opportunities for PepsiCo Y14 to Y18.
- 👤 Established Shell Shared Services, Intuit Shared Services, Pepsico Shared services transitioning ~7000+ ftes across Globe.
- 👤 Delivered \$0.5Bln savings in 2008 - 2014 within Shell Finance operations on various cost savings initiatives.



WHY CERTIFIED PROFESSIONAL DATA SCIENCE & AI



MASTER

Data Science, Machine Learning & AI

RECOMMENDED

For aspiring Data Scientists & AI Leaders



4000+

Alumni Network

70%
Scholarships



PROGRAM HIGHLIGHTS



LIVE

Instructor led Training



10 MONTHS

Weekend Classes



100+

Projects & Guides



PLACEMENTS

100% career assistance

PROGRAM SYLLABUS

 python™ NumPy pandas seaborn matplotlib plotly keras tableau R TensorFlow Keras OpenCV pillow GENSIM
text modelling for humans colab



PROGRAM SYLLABUS

TERM 1: DATA ANALYSIS WITH PYTHON

Data Science Fundamentals

Data Operations with Numpy

Data Manipulation with Pandas

TERM 2: DATA VISUALIZATION TECHNIQUES

Introduction to Data Visualization

Data Visualization using Matplotlib

Hands-on Pandas for Rapid Visualization

Seaborn for Data Visualization

TERM 3: EDA & DATA STORYTELLING

Introduction to Exploratory Data Analysis

EDA Framework Deep Dive

Scientific Exploration of Industry Data (Case Study)

Student Presentations & Insight Delivery

TERM 4: MACHINE LEARNING FOUNDATION

Introduction to Machine Learning

Linear Regression

Logistic Regression

Model Evaluation Techniques

PROGRAM SYLLABUS Cont...

TERM 5: MACHINE LEARNING INTERMEDIATE

Decision Trees

Random Forests

Dimensionality Reduction using PCA

Naive Bayes Classifier

TERM 6: MACHINE LEARNING ADVANCED

(Mandatory)

KNN (K-Nearest neighbors)

K-means Clustering

Ensemble Learning

Optimization

TERM 6: DATA VISUALIZATION WITH TABLEAU

(Elective - I)

Introduction to Data Visualization with Tableau

Exploring Tableau Interface

Tableau Calculations & Dashboard

Mapping using Tableau & Tableau Analytics

TERM 6: DATA ANALYTICS WITH R (Elective - II)

Introduction to Programming in R

Data Manipulation with dplyr

Data Visualization using ggplot & esquisse

Exploratory Data Analytics I & II





PROGRAM SYLLABUS Cont...

CAPSTONE PROJECT

Experience a real world simulation of a company problem that needs to be solved using Data Science and Machine Learning. Work with a team of Data Scientists who are working towards solving issues for a company in trouble.

TERM 7: BASICS OF AI, TENSORFLOW & KERAS

Introduction to Artificial Intelligence

Applications of Artificial Intelligence

Introduction to TensorFlow and Keras

Math behind AI: Simplified

TERM 8: DEEP LEARNING FOUNDATION

Introduction to Deep Learning

Activation Function and Learning Rate

Role of Optimizers in Deep Learning Models

Deep Learning Model Practicals

TERM 9: COMPUTER VISION - I (Opt either CV-I or NLP-I)

Introduction to Convolution Neural Networks

Decoding Image Components

Identifying MNIST using CNN

Preprocessing Image Data to apply CNN

PROGRAM SYLLABUS Cont...

TERM 9: NATURAL LANGUAGE PROCESSING - I

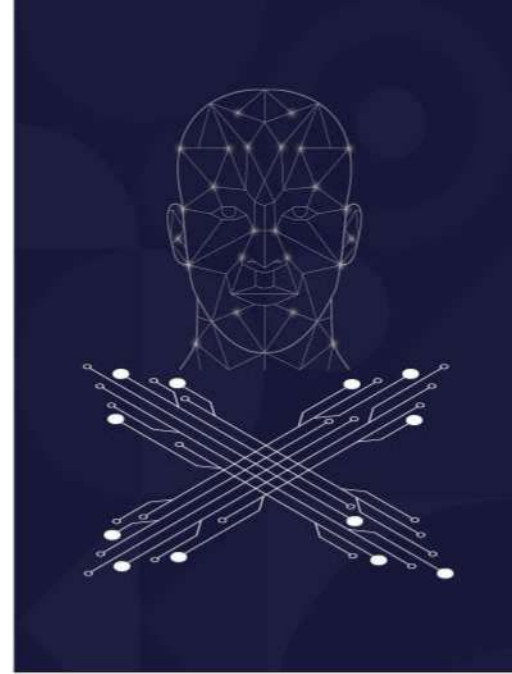
(Elective - I)

Introduction to NLP & Word Vectors

Decoding a Textual Data

NLP using Recurrent Neural Networks (RNN)

NLP using Memory Alterations



AI CAPSTONE PROJECT

In this ever evolving world, solving complex problems get easier using AI. In this capstone project you will be an AI expert who is helping a hypothetical company resolve some major challenges it faces by using AI. Get a chance to work with a team of AI specialists and a simulated environment to help you relate to real world challenges companies face regularly

TERM 10: COMPUTER VISION - II

(Opt either CV-II or NLP-II)

Transfer Learning

Object Detection using CNN based Algorithms - I

Object Detection using CNN based Algorithms - II

Teaching Machines to Mimic Real-World

TERM 10: NATURAL LANGUAGE PROCESSING - II

(Opt either CV-II or NLP-II)

Teach Machines to Generate New Textual Data (Language Modeling)

Keras Functional API and Intro to Sequence to Sequence Model

Language Translation - English to Spanish using Seq2Seq Models

Building a Chatbot



Why CHOOOLS

“

CHOOOLS proved to be the right platform to bridge all gaps and helped to achieve lots of people's main goal, which was to work as a **Data Scientist**.

”

CAREER SUPPORT

DATA SCIENCE CAREER LAUNCHPAD

1 month exclusive program for working professionals.

RESUME WORKSHOP

We'll help you build a sharp Data Science Resume.

INDUSTRY EXPERT SESSIONS

Get access to monthly industry expert sessions.

LIVE JOB ANALYSIS

Apply to the right companies based on your profile.

INTERVIEW GUIDES

Download Data Science, ML & AI interview question bank.

MOCK INTERVIEWS

Participate in 1-on-1 mock interviews and be more prepared.

HIRING PARTNERS

Get better opportunities by applying to the right companies.



DURATION	10 Months
PROGRAM TERMS	10
WEEKLY SCHEDULE	Online classes on weekends Self practice/assignments on weekdays

