**DATA SCIENCE – LEVEL 1 – ROAD MAP**

Programming

Python –

Install Python

Development Environment

Variables

Constructs

Conditionals and Loops

In built modules

Data Science Module - Pandas

Data Science Module - Scikit-Learn

SQL –

Introduction

Order of execution

Query and Sub Query

Operators

CRUD

Data Definition

Data Manipulation

Data Control

Clauses

Joins

Views

Functions

Window Functions

Stats and Probability

Statistics of a data

Distribution and its types

Hypothesis – Definition and testing

Data Analysis

Exploratory

Univariate

Bivariate

Dependent variable based

Visualisation

Types of Charts and their use case

Tableau/Qlik/Power BI

Machine Learning

Linear Regression

Logistic Regression

Decision Tree Classifier

Decision Tree Regressor

Random Forest Reg/Class

XGBoost Reg/Class

K-Means clustering

Isolation Forest – outlier detection

Time Series – SARIMAX

Deep Learning

Neural Nets – Regression and Classification