# Machine Learning - Curriculum

| Sl.No | Topic |
|-------|-------|
| **1** | **Introduction Python** |
| 1.1 | Python Crash course Introduction |
| 1.2 | Python Demo n install |
| 1.3 | Python Intro  and Installation |
| 1.4 | Basic python and datatype |
| 1.5 | Basic,Number,string |
| 1.6 | Data types |
| **2** | **Control flow** |
| 2.1 | If else conditions |
| 2.2 | While & for loop conditions |
| **3** | **Exception Handling** |
| 3.1 | Exception Handling |
| **4** | **Functions** |
| **5** | **OOPS** |
| 5.1 | CLASSES |
| 5.2 | OOP |
| **6** | **Deep Learning** |
| 6.1 | Logistic Regression vs DL |
| 6.2 | TesorFlow and Keras |
| **7** | **Libraries** |
| 7.1 | Introduction to Libraries |
| 7.2 | Library Introduction |
| 7.3 | Matplolib |
| 7.4 | Numpy |
| 7.5 | Pandas |

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| **8** | **Mathematics** |
| 8.1 | Data |
| 8.2 | Linear Algebra |
| 8.3 | Statistics |
| 8.4 | Stats - Probs |
| **9** | **Intro to Probability & DV** |
| 9.1 | Introduction to Probability, Statistics & SQL |
| 9.2 | Data Visualization with Tableau |
| 9.3 | LSTM |
| **10** | **Machine Learning Models** |
| 10.1 | Clustering |
| 10.2 | Evaluation Metrics |
| 10.3 | Logistic Regression - Feature Regression |
| 10.4 | Logistic Regression |
| 10.5 | Simple Linear regression |
| 10.6 | Multiple Linear regression |

| PROJECT | |
|:-----:|-------|
| 1 | **PCA for Customer Segmentation** |
| 2 | **Restaurant Review using NLP** |
| 3 | **Self Driving Car** |
| 4 | **Dogs VS Cats using CNN** |
| 5 | **Lead Scoring Case Study** |