# AI / ML Training Sessions

| Sr. No. | Description |
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| **Machine Learning and AI Sensitization** | |
| 1 | Dealing with Jargons - Data, Statistical Modeling, Data Mining, Machine Learning, NLP, Artificial Intelligence, Analytics (Predictive & Prescriptive), Deep Learning, Supervised Learning, Unsupervised Learning, Reinforcement Learning, Q Learning |
| 2 | What is ML? |
| 3 | Why is it required? |
| 4 | Examples / Videos |
| 5 | Use Cases |
| 6 | Tools Used |
| 7 | R vs Python - Which is better? |
| 8 | TensorFlow vs Keras vs TFLearn |
| **Deep Diving into Machine Learning** | |
| 9 | ML Theory |
| 10 | Statistical Concepts |
| 11 | Algorithms (Theory and Practical for each) - Regression (SLR, MLR, Logistic), Naïve Bayes, SVM, Customer Choice Modeling, Association Rule Mining, Clustering (K-means, Hierarchical) |
| **Deep Diving into Artificial Intelligence** | |
| 12 | AI Theory - What is AI? How is it different from ML? |
| 13 | History |
| 14 | Fundamentals |
| 15 | Neural Networks - Working and Calculations |
| 16 | Recurrent Neural Networks and LSTMs |
| 17 | Convolutional Neural Networks |
| 18 | Autoencoders and Restricted Boltzmann Machines |

## Visualization Tool

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| 19 | Tensorboard for Visualization |

## Industry Expectations and Tips

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| 20 | How to approach a ML / AI problem? |
| 21 | What is Data Science? |
| 22 | Indicators of an Excellent Data Scientist? |
| 23 | Interview Tips and Practice - What to say and what NOT to say? |
| 24 | Managing salary expectations |
| 25 | Undercommittment and Overdelivery |

## Hands On Projects

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| 26 | Sentiment Analysis |
| 27 | Building Chatbot |
| 28 | Image Classification |
| 29 | Handwritten Digits Identification |
| 30 | Speech to Text Engine |
| 31 | Training a Gamebot |
| 32 | Building a Recommendation Engine |
| 33 | Creating music with Unsupervised Learning |
| 34 | Generating Text in your own writing style |
| 35 | Object Detection in live video feed, webcam, video files or Youtube video |