adHOC neTWORKS

WINTER INDUSTRIAL TRAINING/INTERNSHIP 2019

BASH 101-19 Starting with Machine Learning
Duration: 30 Days

Machine Learning

- Foundation - Getting Started with Machine Learning
- Understanding Machine Learning | Deep Learning & AI
- Difference between Data Analysis & Data Science
- Working with Data Management & Visualization Libraries
    - Pandas
    - Numpy
    - Matplotlib
    - MPLD3
- Supervised ML & its Real time use cases with below listed Algorithms
    - Linear & Logistic regression
    - Support Vector Machine [SVM]
    - K-Nearest Neighbors - [KNN]
    - K-means Clustering
    - Decision tree
    - Random Forest
    - Naive Bayes Classifier
    - Using UCI & Kaggle Dataset with all the above algorithms
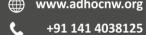
Advanced Machine Learning

Computer Vision
- Understanding Images & Videos
- Procession Image & Videos with OpenCV & Numpy
- Narrowing to Face Detection on Photos and Live Videos
- Object & Face detection with OpenCV
- Face Recognition with Local Binary Patterns Histogram LBPH & DLIB3
- Object Detection with TensorFlow
- Extracting Text from Image using Amazon Machine Learning
- Creating own Motion Detector
- Using open source Google TensorFlow posenet

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Deep Learning

- o Understanding Natural Language Processing NLP
- o Creating a Chatbot with NLP
- o Analyzing Real Time Sentiment with NLP
- o Using Google Voice Engine for Automation
- o Difference between Textblob & NLP

Neural Networks

- o Understanding Neural Networks
- o Approaching with mathematical formulas like exponential series & Cos function
- o Creating own Neural Networks