Data Science/Machine Learning Course

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Day 01:

- Life Cycle of Data Science/ML Project in industry
- Machine Learning Introduction
- Programming Languages for ML
- Python IDE Installation(Jupyter Notebook/spyder/pycharm)

Day 02:

- Python Basics(print, list, tuples,set,dictionary)
- Numpy and Pandas
- Head, tail, shape, info, describe in Pandas
- Visualization libraries(Matplotlib and seaborn)

Day 03:

- Population and sample
- Mean, Median, Mode
- Variance and Standard deviation
- Normal distribution, six sigma
- Percentile

Day 04:

- Supervised learning and UnSupervised learning
- Regression and Classification
- Linear Regression, Logistic regression, KNN algorithm, SVM, Decision tree and Random Forest
- PCA

Day 05:

- Databases:(SQL, Mongo DB)
- Queries

Day 06:

- How to start with Machine learning problem statement by taking the dataset

- Data cleaning by taking the dataset

- Handling missing values in the dataset

- Feature engineering in the dataset

Day 07:

- Machine learning Problem statement: Taking dataset and making model from data preprocessing to model training

Day 08:

- **Project1:** Wearable medical device for heart disease prediction

Day 09:

- **Project1:** Wearable medical device for heart disease prediction(contd. . .)

Day 10:

- **Project2:** Flight Price Prediction

Day 11:

- **Project2:** Flight Price Prediction(Contd...)

Day 12:

- Data Science Internships in various companies like Amazon, Microsoft, Google, Facebook, Uber, etc

- Interview Process

- Questions

- Recently use cases asked in Amazon interview

- Internships Referrals

Day 13:

- Resume preparation and discussion

- Discussion on project explanation in the interview

- Data scientist roles and responsibilities

- Data scientist day to day work

- Companies which hire a data scientist

Day 14:

- Interview preparation for data scientist roles

- Interview preparation for data Machine Learning engineer roles

- Interview preparation for data Analytics roles