Data Science for Bio-Medical

Course Content
Duration: 2 Days (14-16 HRS)
Eligibility: Can be joined by both Engineering and bio-medical and other students also who are interested to make their career and want to update in Data Science.

Day 1

Introduction to python based on Data Science
- Oops
- File Handling
- Generators and decorators
- Numpy
- Pandas
- Add some python topics here

Data Visualization & Exploratory Data Analysis

- All plots like Bar, scatter, facet, linspace, etc. Add all the plots to expose more.

- Comparing the dataset with different components to explore the data.

Data preprocessing:

- Data cleaning
- Data integration
- Data transformation
- Data reduction

Day 2

Machine Learning & Deep Learning

- Linear regression & logistic regression
- SVM
- KNN & K nearest
- Decision Tree
- Random forest
- Bagging & Boosting
- Deep Neutral network techniques

Projects: Real-time experiment on

1. Diabetics classification
2. ICU patient analysis and visualization
3. Brain tumor analysis and visualization
4. Healthcare - disease symptoms prediction