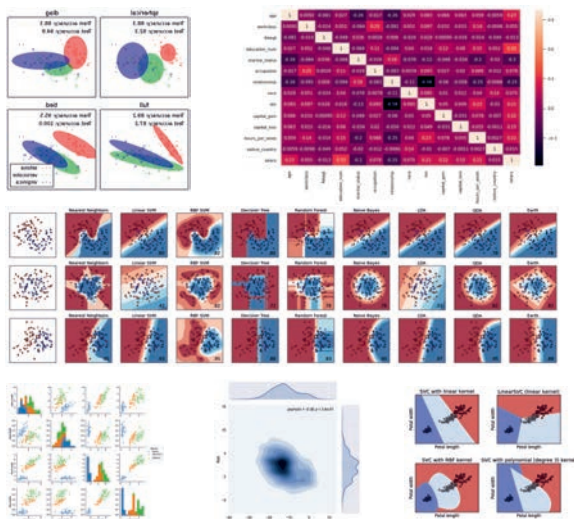


Learning Skills / Experiments:



- Linear Regression
- Polynomial Regression
- Logistic Regression
- kNN (k Nearest Neighborhood)
- K-Means Clustering
- SVM (Support Vector Machine)
- Gradient Descent
- Newton's Method
- MLE (Maximum Likelihood Estimation)
- MAP (Maximum A Posteriori)
- PCA (Principal Component Analysis)
- L1 Regularization (Lasso Regression)
- L2 Regularization (Ridge Regression)
- Decision Trees
- Random Forest
- ANN (Artificial Neural Network)

Workshop:

A complete hands-on workshop is provided to demonstrate the use of the Machine Learning lab resource, experimentation procedure, concepts and theory.

Prerequisites:

Software:

- Python language

An online foundation course on python can be optionally provided if required, For more details, Visit:

<https://www.edutechlearning.com/coursedesc/computer-science/skill-courses2/python-programming-foundation-part-1>

Hardware:

The following hardware setup is required in the lab to use ML Lab resource:

- Machine with following minimum specifications:
 - CPU with minimum 8 cores (10 Cores recommended), Minimum 32 GB of RAM
- LAN environment

Applicable Departments:

Pure Science

- Physics • Chemistry • Maths • Biology

Engineering

- Mechanical • Electronics • Electrical • Bio-medical
- Information & Technology • Computer Science

Medical Science

- Radiology • Oncology • Diagnostic

Commerce

- Statistics • Finance • Stock Analysis

Applicable Areas:

- Robotics
- Marketing
- Health Care
- Astrophysics
- Mobile advertising
- Recommendation systems
- Drug discovery and toxicology
- Customer relationship management
- Smart cities
- Bioinformatics
- Finance

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