1) Vector space and its properties
2) Solve equⁿ using LU decomposition, Cholsky decomposition
3) Perform LU on matrix
4) Linear Independency. (definition & example)
5) Eigen vector Eigen value
6) Basis of subspace (definition)
7) Define inner product and properties
8) Gram Schmidt step
9) Solve equation by gaussian Elimination
10) SVD and application
11) Calculate SVD of a matrix
12) Simple linear regression
13) PCA and steps involved in dimensionali-
   - ty reduction
14) Covariance and correlation
15) Logistic regression and parameter estimations for logistic regression
16) SVM, hyperplane and margin
17) Normal distribution and its parameters
18) Bell curve
19) Expected value, variance of random variable
20) Formula for the variance of random variable