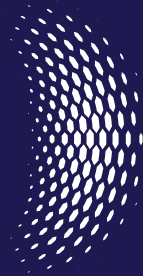




Consulting & Analytics Club  
IIT Guwahati

# Gradient Ascent



A Comprehensive Intern Guide  
on Data Science and Analytics

# Resources

Topic	
Linear Algebra	<a href="#">Link</a>
Stats / Probability	<a href="#">Link</a>
DeepLearning.AI Specialisation Course Notes	<a href="#">Link</a>
Linear Regression	<a href="#">Link</a>
Logistic Regression	<a href="#">Link</a>
Multi-Class vs Multi-Label Classification	<a href="#">Link</a>
Multi-Label Classification	<a href="#">Link</a>
Multi-Class Classification with Imbalanced	<a href="#">Link</a>
Naive Bayes	<a href="#">Link</a>
Bias Variance Trade-off	<a href="#">Link</a>
Support Vector Machine	<a href="#">Link</a>
Support Vector Machine Code	<a href="#">Link</a>
Ensemble Methods: Bagging, Boosting and Bootstrapping	<a href="#">Link</a>
Feature Engineering for ML Models	<a href="#">Link</a>
Principal Component Analysis	<a href="#">Link</a>
T-distributed Stochastic Neighbour Embedding (t-SNE)	<a href="#">Link</a>
K-means Clustering	<a href="#">Link</a>
K-means Clustering Code	<a href="#">Link</a>
K-Nearest Neighbour (KNN)	<a href="#">Link</a>
KNN Code	<a href="#">Link</a>
Feature Engineering in Images	<a href="#">Link</a>
All about Natural Language Processing ( Watch according to your needs)	<a href="#">Link</a>
Feature Scaling	<a href="#">Link</a>
Gaussian Distribution	<a href="#">Link</a>
Mini-Batch Gradient Descent	<a href="#">Link</a>
Gradient Descent with Momentum	<a href="#">Link</a>
Grid Search	<a href="#">Link</a>

Topic	
Batch Normalization	<a href="#">Link</a>
Recurrent Neural Network (RNN)	<a href="#">Link</a>
Long-Short Term Memory (LSTM)	<a href="#">Link</a>
Different Types of Losses and significance	<a href="#">Link 1</a> <a href="#">Link 2</a> <a href="#">Link 3</a>
Evaluation Metrics and their significance in particular cases	<a href="#">Link 1</a> <a href="#">Link 2</a> <a href="#">Link 3</a>
Regularization and Optimization Techniques (Blogs related to Andrew Ng DL Course 2)	<a href="#">Link 1</a> <a href="#">Link 2</a>
Ensemble Models	<a href="#">Link 1</a> <a href="#">Link 2</a>
Data Handling (Train, Dev and Test)	<a href="#">Link 1</a> <a href="#">Link 2</a>
Machine Learning Case Studies	<a href="#">Link</a>
Interview Prep Playlist (Krish Naik) - Checkout his other relevant playlists too	<a href="#">Link</a>