- 1. What is Machine Learning? | 100 Days of Machine Learning
- 2. AI Vs ML Vs DL for Beginners in Hindi
- 3. Types of Machine Learning for Beginners | Types of Machine learning in Hindi | Types of ML in Depth
- 4. Batch Machine Learning | Offline Vs Online Learning | Machine Learning Types
- 5. Online Machine Learning | Online Learning | Online Vs Offline Machine Learning
- 6. Instance-Based Vs Model-Based Learning | Types of Machine Learning
- 7. Challenges in Machine Learning | Problems in Machine Learning
- 8. Application of Machine Learning | Real Life Machine Learning Applications
- 9. Machine Learning Development Life Cycle | MLDLC in Data Science
- 10. Data Engineer Vs Data Analyst Vs Data Scientist Vs ML Engineer | Data Science Job Roles
- 11. What are Tensors | Tensor In-depth Explanation | Tensor in Machine Learning
- 12. Installing Anaconda For Data Science | Jupyter Notebook for Machine Learning | Google Colab for ML
- 13. End to End Toy Project | Day 13 | 100 Days of Machine Learning
- 14. How to Frame a Machine Learning Problem | How to plan a Data Science Project Effectively
- 15. Working with CSV files | Day 15 | 100 Days of Machine Learning
- 16. Working with JSON/SQL | Day 16 | 100 Days of Machine Learning
- 17. Fetching Data From an API | Day 17 | 100 Days of Machine Learning
- 18. Fetching data using Web Scraping | Day 18 | 100 Days of Machine Learning
- 19. Understanding Your Data | Day 19 | 100 Days of Machine Learning
- 20. EDA using Univariate Analysis | Day 20 | 100 Days of Machine Learning
- 21. EDA using Bivariate and Multivariate Analysis | Day 21 | 100 Days of Machine Learning
- 22. Pandas Profiling | Day 22 | 100 Days of Machine Learning
- 23. What is Feature Engineering | Day 23 | 100 Days of Machine Learning
- 24. Feature Scaling Standardization | Day 24 | 100 Days of Machine Learning
- 25. Feature Scaling Normalization | MinMaxScaling | MaxAbsScaling | RobustScaling
- 26. Encoding Categorical Data | Ordinal Encoding | Label Encoding
- 27. One Hot Encoding | Handling Categorical Data | Day 27 | 100 Days of Machine Learning
- 28. Column Transformer in Machine Learning | How to use ColumnTransformer in Sklearn
- 29. Machine Learning Pipelines A-Z | Day 29 | 100 Days of Machine Learning
- 30. Function Transformer | Log Transform | Reciprocal Transform | Square Root Transform
- 31. Power Transformer | Box Cox Transform | Yeo Johnson Transform
- 32. Binning and Binarization | Discretization | Quantile Binning | KMeans Binning
- 33. Handling Mixed Variables | Feature Engineering
- 34. Handling Date and Time Variables | Day 34 | 100 Days of Machine Learning
- 35. Handling Missing Data | Part 1 | Complete Case Analysis
- 36. Handling missing data | Numerical Data | Simple Imputer
- 37. Handling Missing Categorical Data | Simple Imputer | Most Frequent Imputation | Missing Category Imp
- 38. Missing Indicator | Random Sample Imputation | Handling Missing Data Part 4
- 39. KNN Imputer | Multivariate Imputation | Handling Missing Data Part 5
- 40. Multivariate Imputation by Chained Equations for Missing Value | MICE Algorithm | Iterative Imputer
- 41. What are Outliers | Outliers in Machine Learning
- 42. Outlier Detection and Removal using Z-score Method | Handling Outliers Part 2
- 43. Outlier Detection and Removal using the IQR Method | Handing Outliers Part 3
- 44. Outlier Detection using the Percentile Method | Winsorization Technique

- 45. Feature Construction | Feature Splitting
- 46. Curse of Dimensionality
- 47. Principle Component Analysis (PCA) | Part 1 | Geometric Intuition
- 48. Principle Component Analysis (PCA) | Part 2 | Problem Formulation and Step by Step Solution
- 49. Principle Component Analysis(PCA) | Part 3 | Code Example and Visualization
- 50. Simple Linear Regression | Code + Intuition | Simplest Explanation in Hindi
- 51. Simple Linear Regression | Mathematical Formulation | Coding from Scratch
- 52. Regression Metrics | MSE, MAE & RMSE | R2 Score & Adjusted R2 Score
- 53. Multiple Linear Regression | Geometric Intuition & Code
- 54. Multiple Linear Regression | Part 2 | Mathematical Formulation From Scratch
- 55. Multiple Linear Regression | Part 3 | Code From Scratch
- 56. Gradient Descent From Scratch | End to End Gradient Descent | Gradient Descent Animation
- 57. Batch Gradient Descent with Code Demo | Simple Explanation in Hindi
- 58. Stochastic Gradient Descent
- 59. Mini-Batch Gradient Descent
- 60. Polynomial Regression | Machine Learning
- 61. Bias Variance Trade-off | Overfitting and Underfitting in Machine Learning
- 62. Ridge Regression Part 1 | Geometric Intuition and Code | Regularized Linear Models
- 63. Ridge Regression Part 2 | Mathematical Formulation & Code from scratch | Regularized Linear Models
- 64. Ridge Regression Part 3 | Gradient Descent | Regularized Linear Models
- 65. 5 Key Points Ridge Regression | Part 4 | Regularized Linear Models
- 66. Lasso Regression | Intuition and Code Sample | Regularized Linear Models
- 67. Why Lasso Regression creates sparsity?
- 68. ElasticNet Regression | Intuition and Code Example | Regularized Linear Models
- 69. Logistic Regression Part 1 | Perceptron Trick
- 70. Logistic Regression Part 2 | Perceptron Trick Code
- 71. Logistic Regression Part 3 | Sigmoid Function | 100 Days of ML
- 72. Logistic Regression Part 4 | Loss Function | Maximum Likelihood | Binary Cross Entropy
- 73. Derivative of Sigmoid Function
- 74. Logistic Regression Part 5 | Gradient Descent & Code From Scratch
- 75. Accuracy and Confusion Matrix | Type 1 and Type 2 Errors | Classification Metrics Part 1
- 76. Precision, Recall and F1 Score | Classification Metrics Part 2
- 77. Softmax Regression || Multinomial Logistic Regression || Logistic Regression Part 6
- 78. Polynomial Features in Logistic Regression | Non Linear Logistic Regression | Logistic Regression 7
- 79. Logistic Regression Hyperparameters || Logistic Regression Part 8
- 80. Decision Trees Geometric Intuition | Entropy | Gini impurity | Information Gain
- 81. Decision Trees Hyperparameters | Overfitting and Underfitting in Decision Trees
- 82. Regression Trees | Decision Trees Part 3
- 83. Awesome Decision Tree Visualization using dtreeviz library