

Fox  Omega

Topics asked in Data Science interview

Complete Guide



Basic Statistic

- Probability
- Bayes Theorem
- Mean, Median, Mode and its properties
- Random variables
- Skewness, Kurtosis
- Expectations and Variance with properties
- Correlation and Covariance





Statistical Distributions

- Binomial distribution
- Poisson Distribution
- Geometric Distribution
- Exponential Distributions
- Normal Distributions
- Uniform Distributions
- Gamma and Beta Distributions

Hypothesis Testing

- t-test
- f-test
- chi-square test
- ANOVA
- Interpretation of p-value
- Central Limit Theorem





Machine learning Algorithms

- Linear regression
- Logistic regression
- KNN
- SVM
- Decision Tree
- LDA and QDA
- Random Forest
- Bagging
- Boosting
- PCA
- Naive Bayes classifier
- Ridge Regression
- Lasso Regression
- Elastic Net
- K-Means clustering



Data Science Concepts

- Bias-variance tradeoff
- Precision and recall
- ROC-AUC curve
- Handling missing data
- Outlier handling
- Cross-validation
- Overfitting and Underfitting
- Regularization

SQL Concepts

- Joins in SQL
- Constraints in SQL
- Primary Key and Foreign Key
- Queries in SQL
- TRUNCATE, DELETE and DROP
- Use of Aggregate Functions
- WHERE, HAVING and GROUP BY clause





Data Structure Concepts

- Array
- Linked List
- Stack
- Queue
- Binary search tree
- Linear and Binary Search
- Sorting algorithms

Programming Concepts

- List, tuple, dictionary, and set
- Loop and function
- Recursion
- Dataframe
- Importing data
- Data Visualization Libraries
- ML Libraries



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