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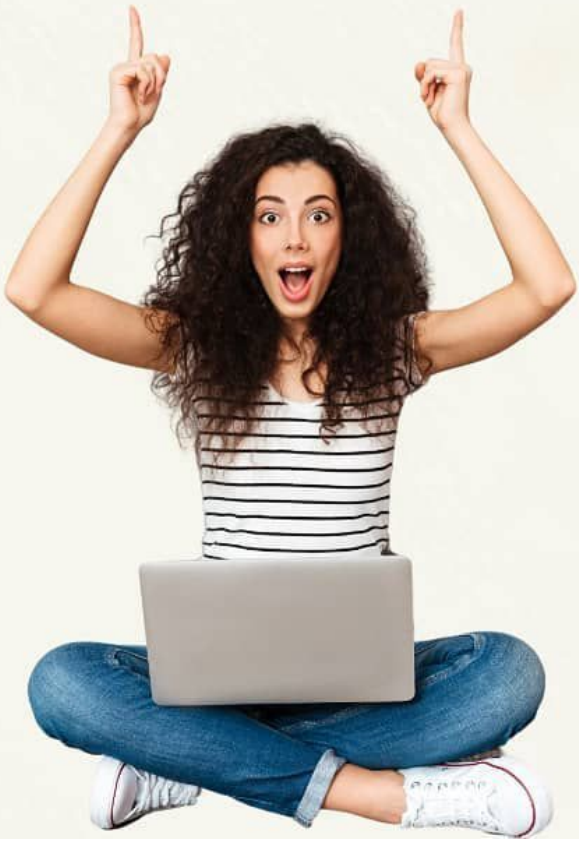
MATH

FOR

DATA SCIENCE



STATISTICS

- Descriptive statistics
- Central tendency
- Variance
- Covariance
- Correlation
- Bayes' theorem
- Conditional probability
- Probability calculus
- Uniform distribution
- Normal distribution
- Binomial distribution
- Chi-square
- Student's t-distribution
- Central limit theorem
- Sampling
- Hypothesis testing

- A/B testing
- Confidence intervals
- p-values
- ANOVA
- t-test

STATISTICS

- StatQuest
- 3Blue1Brown
- KhanAcademy

- Statistics with R specialization (Coursera)
- Business statistics and analysis specialization (Coursera)
- (Udacity) Inferential and Descriptive Statistics

LINEAR ALGEBRA

- Scalar multiplication
- Linear transformation
- Transpose
- Conjugate
- Rank
- Determinant
- Matrix multiplication
- Matrix inverse
- Matrix factorization
- LU decomposition
- Gaussian/Gauss-Jordan elimination
- Eigenvalues & eigenvectors
- Singular value decomposition

LINEAR ALGEBRA

- MIT
- 3Blue1Brown
- KhanAcademy

- Mathematics for machine learning: linear algebra (Coursera)
- Computational Linear Algebra for coders by fast.ai
- Linear algebra: foundations to frontiers (EDX)

CALCULUS

- Functions of a single variable
- Limit
- Continuity
- Differentiability
- Mean value theorems
- Maxima and minima
- Product and chain rule
- Taylor’s series
- Fundamental and mean value-theorems of integral calculus
- Beta and gamma functions
- Functions of multiple variables
- Basics of ordinary and partial differential equations

CALCULUS

- MIT
- 3Blue1Brown
- KhanAcademy

- Thomas calculus
- Mathematics for machine learning: multivariable calculus (coursera)

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