# Statistics and Mathematics

## Overview

This folder includes resources for statistics and mathematical concepts essential for data science, such as probability, linear algebra, and calculus.

## Content

- \*\*statistics\_intro.ipynb\*\*: Introduction to statistics with practical examples.

- \*\*linear\_algebra.pdf\*\*: Notes and exercises on linear algebra concepts.

- \*\*probability\_theory.pdf\*\*: Overview of probability theory and related problems.

## Purpose

To build a strong foundation in statistics and mathematics, which are critical for data analysis and model development.

## References

- [Khan Academy Statistics and Probability](https://www.khanacademy.org/math/statistics-probability)

- \*\*Book\*\*: Introduction to Probability by Dimitri P. Bertsekas and John N. Tsitsiklis

## Usage

Review the `.ipynb` files in Jupyter Notebook and study the PDF notes to understand theoretical and practical aspects.