# What is DataOps?

# DataOps, which is short for data operations, is an extention of DevOps that focuses on streamlining data engineering processes that enhances the speed, accurancy, and trustworthiness of data for analytics, insights, and data science.

# DataOps introduces agile development to data analytics so that data teams and users work together more efficiently and effectively. It is also a process-driven, automated technique, which data engineering and analytics teams can adopt for continuous integration and continuous deployment.

# DataOps benefits

# Empowered data and analytics teams

# Rapid access to trustworthy data

# Shorter to spin up the right data sets

# Flexible IT/business operating model

# Compliance and security

# Advanced cloud transition

# Competitive advantage

# DataOps is the concept that ties these services into one neat package:

# Operations development

# Data management

# Data visualization

# Data analytics

# Data tooling

# What are DataOps tools?

# Data Pipeline Tools

# Simply put, [data pipelines](https://www.theseattledataguy.com/airbnbs-airflow-versus-spotifys-luigi/) provide organizations access to well-structured, reliable datasets so as to extract useful analytics and insights. This helps get data from operational and application systems into data warehouses analytical systems. Some of the most popular data pipelining tools include:

# Genie

# Piper

# Airflow

# Automated Testing Tools

# The second category of DataOps tools covers automated testing. Simply put, automated testing tools test and compare the actual outcomes of a software technique, versus the expected outcome. These tests are applied to repetitive tasks to identify the best methods.

# Naveego

# FirstEigen

# RightData

# Data Science Model Deployment Tools

# Model deployment is basically a method in which you integrate the AI or ML data model into any existing production environment so as to make business decisions based on the data sets. This is usually the last step in the model lifecycle and therefore, it is very crucial.

# Badook

# DataKitchen

# Lentiq