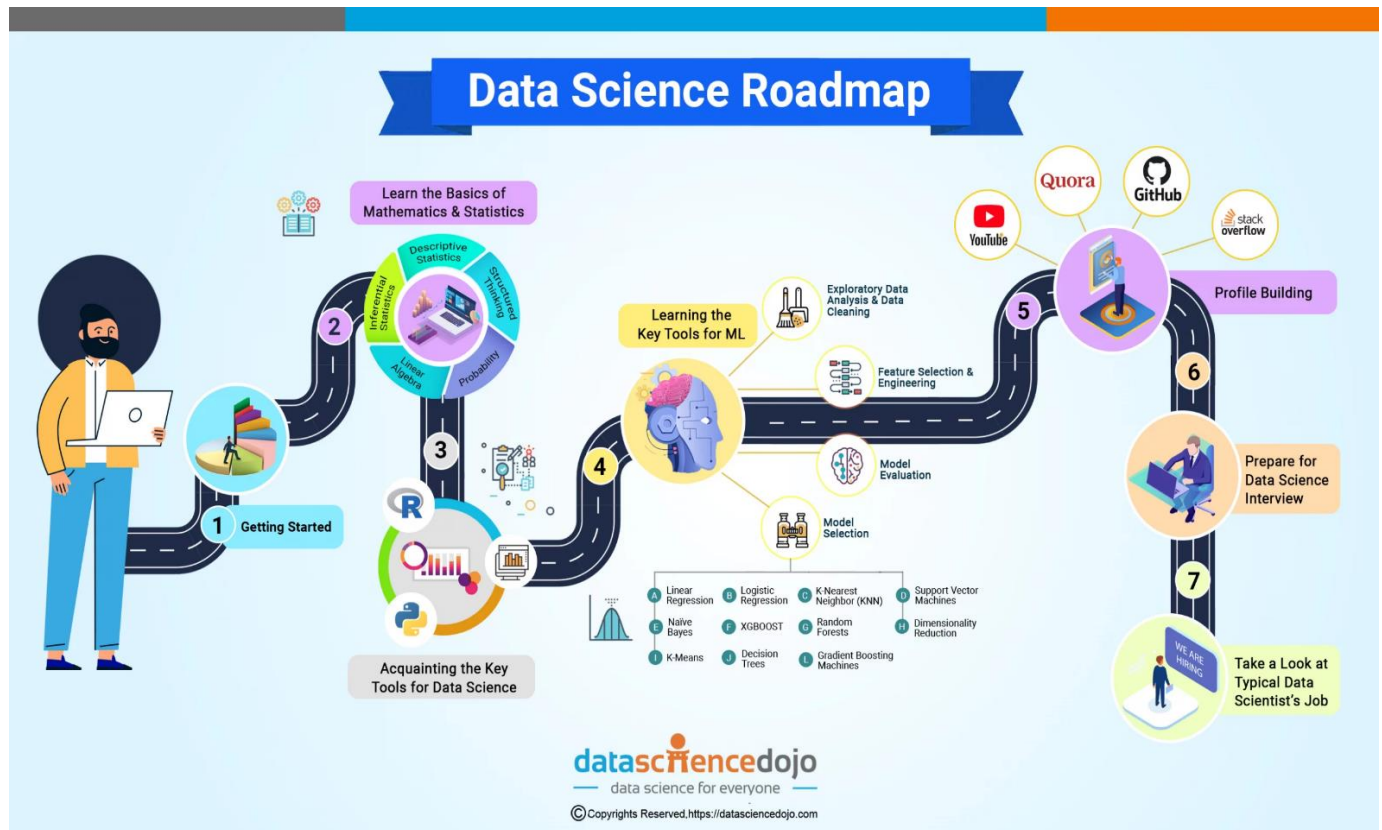# DATA SCIENCE ROADMAP
2023/2024

This article shows a step-by-step roadmap to become a data scientist as follows.

Step1: *Getting Started with basics*

Basics of data science include; understanding what is data science, different types of data and the different types of tools and techniques to use.

Step2: *Learning the basics of Mathematics and Statistics*

Mathematical and Statistical skills such as; Probability, Linear Algebra, Inferential statistics, Descriptive statistics etc., are essential in data science e.g., building models in machine learning.

Step3: *Acquiring key tools programming for data science*

To be a data scientist you need to be proficient in programming languages such as Python or R, and SQL. These tools allow data scientist to collect, clean and analyze data as well as creating models for machine learning. For visualization you can use Power Bi, Excel and Tableau.

Step4: *Learning the key concepts for machine learning*

Exploratory   Data Analysis, Data cleaning, Feature selection and engineering, Model selection, Model processing as well as Model evaluation are essential concept for machine learning.

Step5: *Building your profile*

Create a Professional looking linked in profile, update git hub account with data science and machine learning projects. Join data related communities and create connection with data scientist mostly senior data analyst so as you can borrow some skills from them too.