

Features extraction

Hypothesis

Data quality measurement

Data dimension

# Unleashing the Power of Data Analyst

Traits selection

Insights by *Abdul Majeedh*

Model selection

Relationship measurement

Networking

Pre-processing

Growth

Classification

Similarity/  
Dissimilarity

## Skills and Qualifications

### 1 Data interpretation

Ability to analyze raw data to extract meaningful insights and trends.

### 2 Data visualization

Experience in presenting data in visual formats for better understanding.

### 3 Proficiency in statistical analysis and data visualization tools

(e.g., Advance Excel, SQL/Python, PowerBI / Tableau) for extracting insights

1

2

3

4

5

### 4 Statistical analysis

Proficiency in using statistical methods to draw meaningful insights.

### 5 Problem-solving

Strong problem-solving skills to tackle complex challenges.

# Tools and Technologies

## Data Tools

- Advance Excel
- Python Basics
- SQL

## Visualization

Tableau, Power BI

## Analysis

Pandas, NumPy

*Exploratory  
data analysis*

## Data Analysis Process

► Key Steps

*Parameter  
estimation*

Effect sizes, conf. int.

## Data Visualization

1

### Charts & Graphs

Understanding visual representation of data:

- 65 Years and Over
- 45 to 64 Years
- 25 to 44 Years
- 18 to 24 Years

## 2 Interactive Visualization

Creating dynamic visualizations.

## 3 Infographics

Presenting complex data in a visually appealing way.

# Statistical Analysis

95%

Utilizing statistical methods to achieve accurate results.

3K

Analyzing thousands of data sets for meaningful patterns.

# Data Cleaning and Preprocessing

## 1

### Data Collection

Gathering raw data from various sources.



First_name	Street_birth	Age	Date_admitted	Date_disch
Thomas	duane	21	1/29/1846	1/29/1846
John	duane	23	2/27/1846	2/27/1846
Ellen	Forrest	22	2/5/1846	2/5/1846
Fanny	simpson	23	4/8/1846	4/8/1846
Hugh	simpson	22	8/31/1846	8/31/1846
Eliza	forrest	30	4/14/1846	4/14/1846
George	Simpson	62	6/29/1846	6/29/1846
Patrick	first	23	8/14/1846	8/14/1846
Mary	First	35	4/10/1847	4/10/1847
John	first	20	3/25/1847	3/25/1847
Michael	Mercer	25	11/18/1846	11/18/1846
Michael	Mercer	11	4/13/1847	4/13/1847

2

## Cleaning

Identifying and rectifying errors in the data.

3

## Preprocessing

Transforming data into a suitable format for analysis.

				0:00:00
Michael	third	20	7/12/1847	7/12/1847 0:00:00
John	Third	8	3/2/1847	3/2/1847 0:00:00
Timothy	Mercer	27	3/25/1847	3/25/1847 0:00:00
Martin	first	50	1/25/1847	1/25/1847 0:00:00
Arthur	Duane	25	1/29/1847	1/29/1847 0:00:00
Barnard	Dauane	51	5/31/1847	5/31/1847 0:00:00
John	third	28	5/21/1847	5/21/1847 0:00:00

# DATA SCIENCE

The job of 21st century requires a mixture of multidisciplinary skills: mathematics, statistics, computer science, communication and business. Knowing people who understand who a data scientist is, is equally important. This cheat sheet on who the modern data scientist really is.



of practitioners in the area of e-commerce marketing. Our fields of expertise include customer tracking and on-site analytics; predictive analytics and econometrics; data mining; marketing channel insights in Paid Search, SEO, Social, CRM and brand.

# Career Opportunities in Data Analysis

## Industry Growth

The demand for data analysts is rapidly increasing across all industries.

## Wide Range of Sectors

Opportunities in finance, healthcare, retail, and technology.

## High Earning Potential

Competitive salaries and diverse career paths.