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Introduction to Data Science

Check In

In your groups discuss

- What are excited to learn? 😄
- What are your nervous about? 😅
- What can Jess do to help you be successful? ⭐
- What can you do to be successful? 💪🏽

Students, write your response!

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Welcome to DS 1.1

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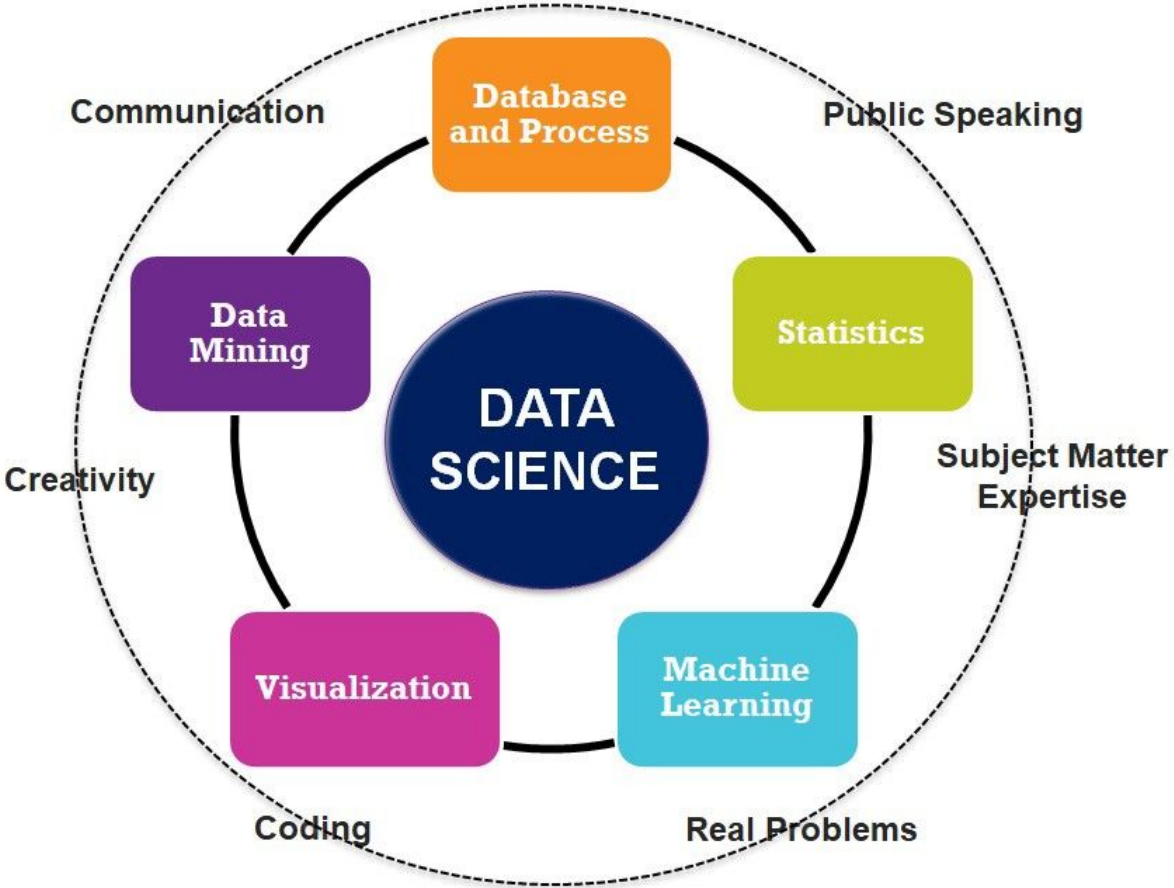
In this class we will explore

- Manipulating/Exploring data
- Visualizing data
- Analyzing data in meaningful ways
- Common tools and vocab
- Creating basic machine learning models and performing analysis

What is Data Science?



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Why are you interested in Data Science?

Students, write your response!

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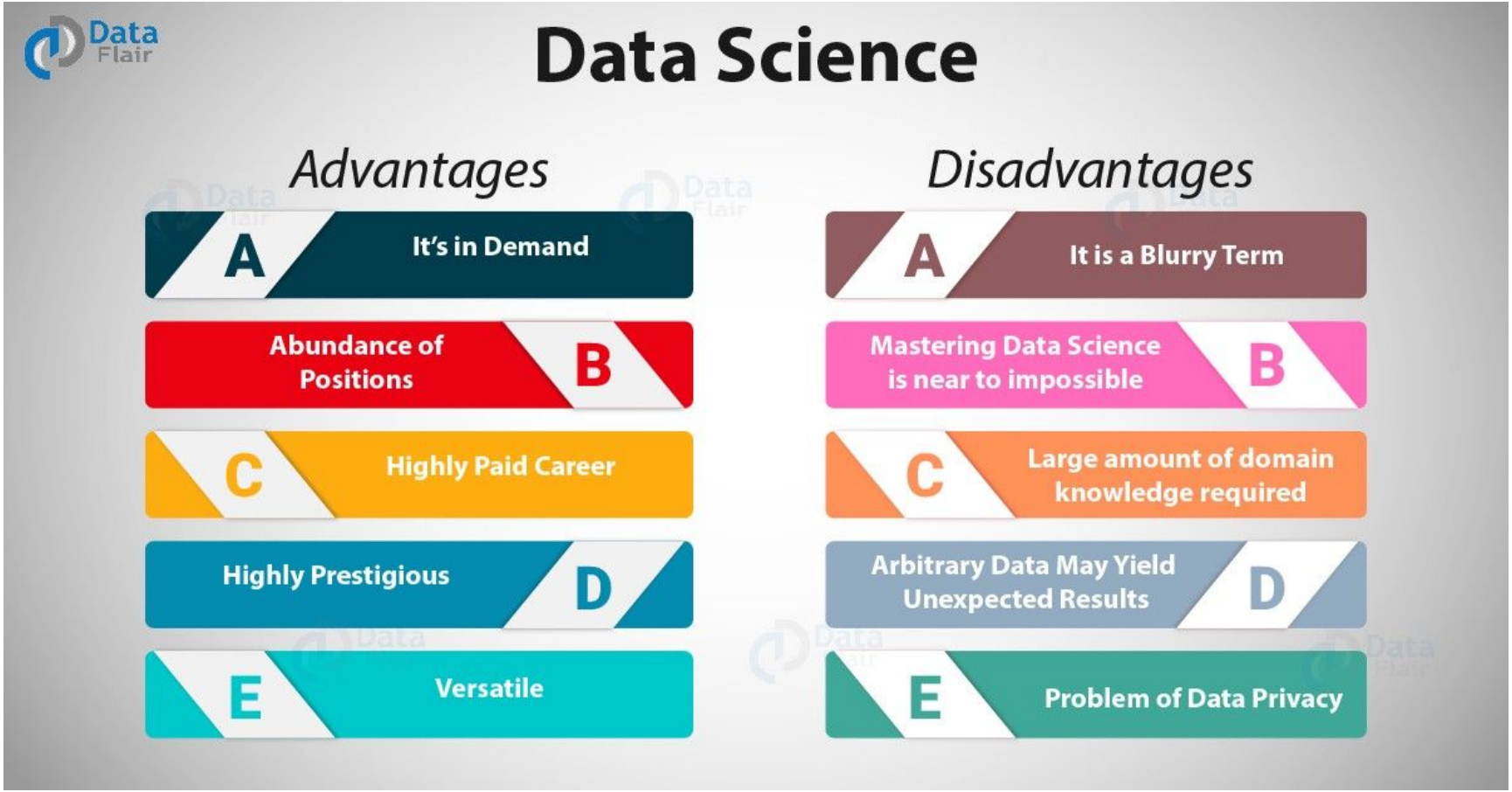
Data Science Pros and Cons



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What are the different data science roles?

Courses in the Data Science Track

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Data Science Courses

Course	Course Title	Prerequisites
DS 1.1	Data Analysis & Visualization	CS 1.2, QUANT
DS 2.1	Introduction to Machine Learning	DS 1.1
DS 2.2	Neural Networks & Deep Learning	DS 2.1
DS 2.3	Production Data Science Tools	DS 2.1
DS 2.4	Advanced Topics in Data Science	DS 2.2

Core Technical Courses

Course	Course Title	Prerequisites
BEW 1.1	RESTful & Resourceful MVC Architecture	-
BEW 1.2	Authentication, Authorization & Advanced	BEW 1.1
CS 1.1	Programming Fundamentals	-
CS 1.2	How Data Structures Work	CS 1.1
CS 1.3	Core Data Structures & Algorithms	CS 1.2

+ SPD Every Term

[Data Science Track Roadmap]

Exploratory Data Analysis

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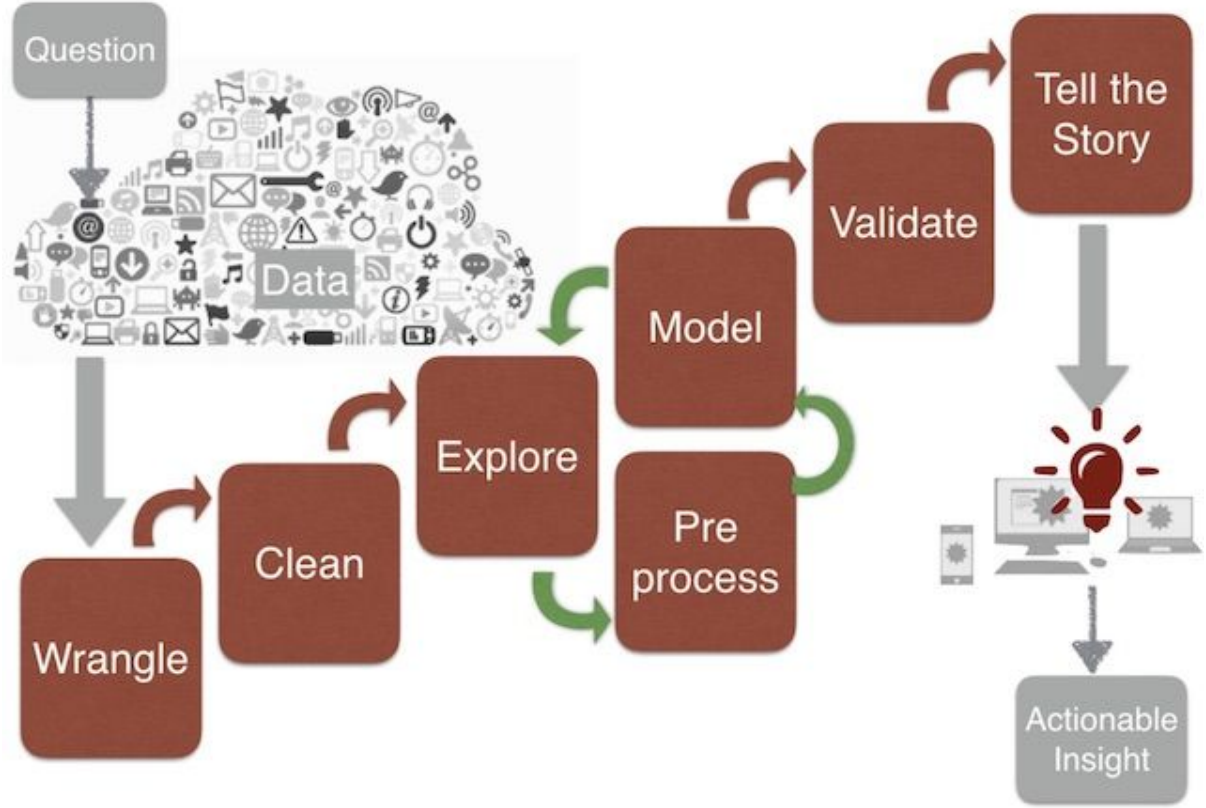

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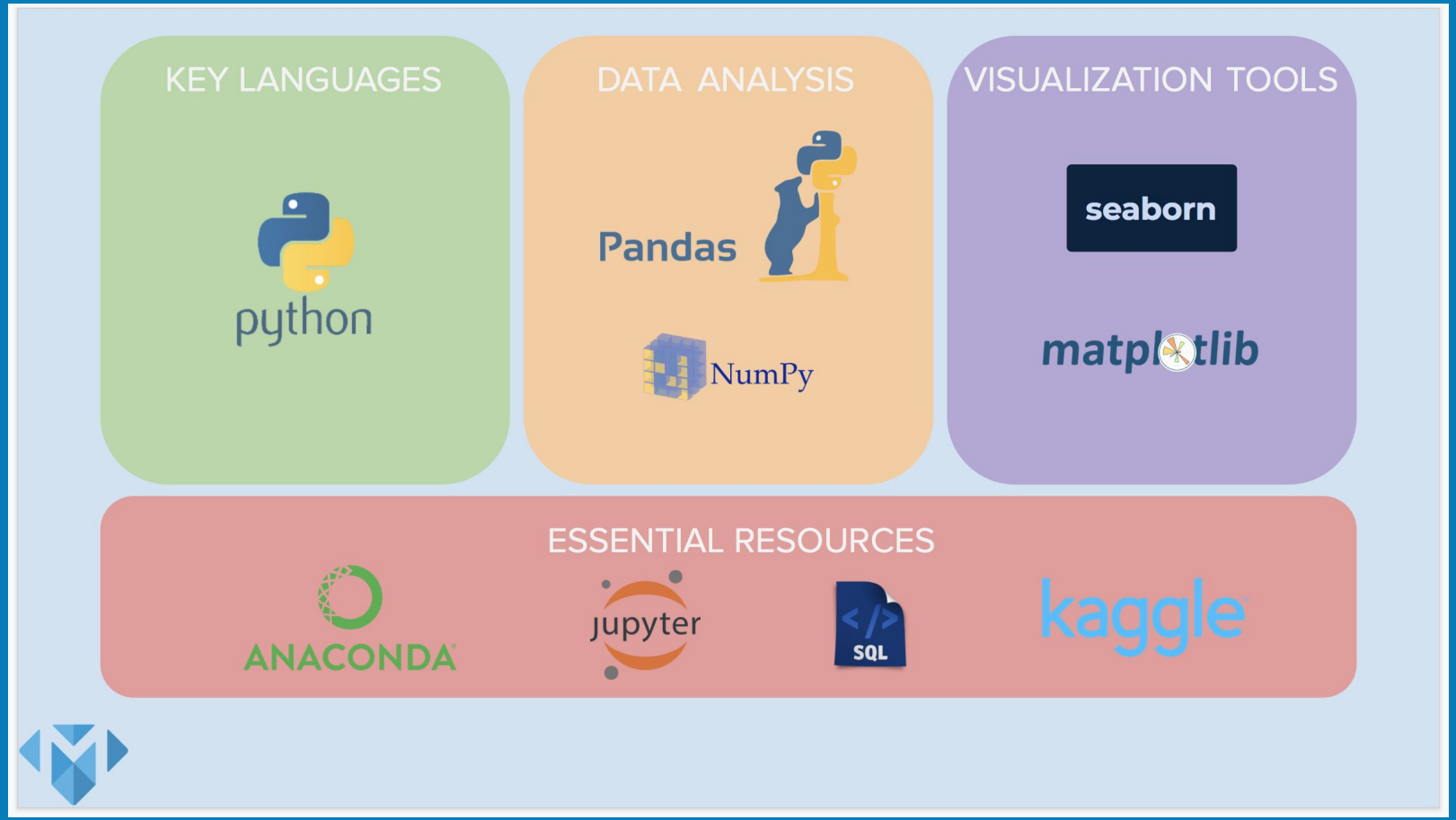
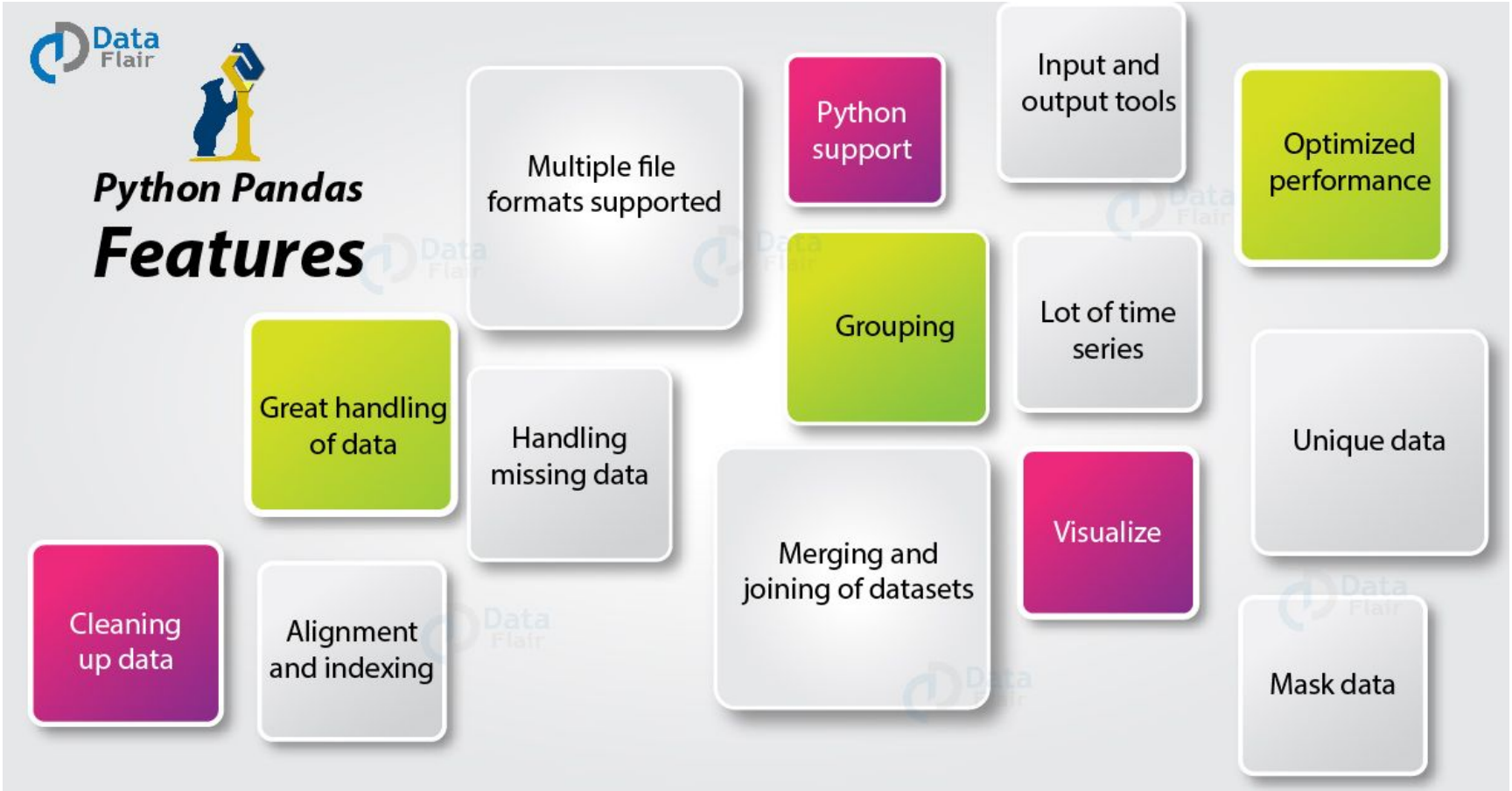
Toolsets

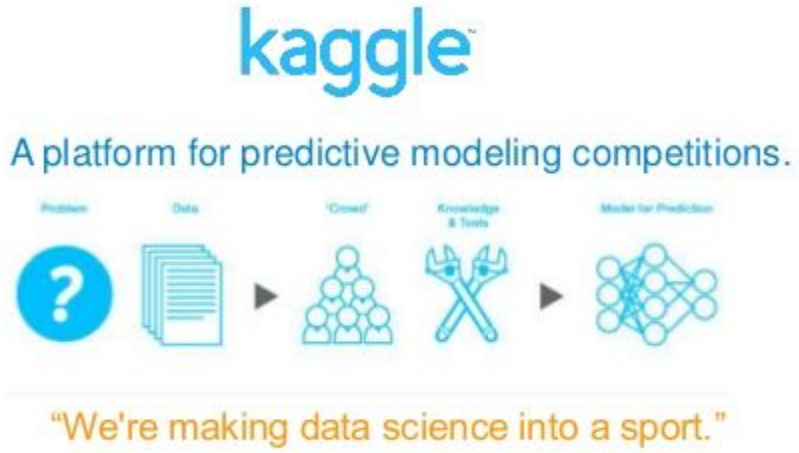

KEY LANGUAGES
python
DATA ANALYSIS
Pandas
NumPy
VISUALIZATION TOOLS
seaborn
matplotlib
ESSENTIAL RESOURCES
ANACONDA
jupyter
SQL
kaggle

Google Colab

Pandas


Data Flair
Python Pandas
Features
Multiple file formats supported
Python support
Input and output tools
Optimized performance
Great handling of data
Handling missing data
Grouping
Lot of time series
Unique data
Cleaning up data
Alignment and indexing
Merging and joining of datasets
Visualize
Mask data

Kaggle


kaggle
A platform for predictive modeling competitions.
"We're making data science into a sport."

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Video Game Sales Exploration