Data Science Knowledge Repository

Contents

Data Analysis Process

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Defining or Understanding a Problem

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Data Collection

Pass

Git / Github

Contents

Git Commands

References:

- Luke Barousse
- Ken Jee

GitHub

Github profile readme.md configurations

References:

- Yu Shi
- Emoji cheatsheet

Creating a project repository

Pass

Version Control

Pass

Commits

pass

Push

pass

Pulls

pass

Merges

pass

Working with Excel

Contents

- Formulas
- Functions
- Pivot tables
- Data validation
- Data visualization with Excel
- Google Sheets shortcuts

References:

Luke Barousse

Excel Skills for Business

Edureka

Formulas

Functions

Pivot Tables

Data Validation

Data Visulization with Excel

Google Sheet shortcuts (Windows)

Bullets	CTRL + SHIFT + 8
Headings (1-6)	CTRL + ALT + [number (1-6)]
Hyperlinks	CTRL + K
Indent Left	CTRL + [(left bracket)
Indent Right	CTRL +] (right bracket)
Normal Text	CTRL + ALT + 0
Number List	CTRL + SHIFT + 7
Strikethrough	ALT + SHIFT + 5
Superscript	CTRL + . (period)
Subscript	CTRL + , (comma)

Working with SQL

Contents

- SQL Basics
- Data Definition Language (DDL)
    - Used for defining objects (tables) - define, change, or drop data
    - CREATE, ALTER, TRUNCATE, DROP
- Data Manipulation Language (DML)
    - Used for manipulating data in tables - read and modify data
    - Create, Read, Update, Delete rows (CRUD) operations
    - INSERT, SELECT, UPDATE, DELETE
- Window Functions
- Accessing a database with Python
    - Handling sensitive info with environment variables
    - Showing query results in Pandas format

References:

- Luke Barousse
    - SQL for Data Science
- SQLite Window Functions

Data Visualization

Pass

Working with Jupyter Notebook / Lab

Pass

Working with Python

Pass

Practical Statistics for Data Science

Reference:

- Shashank Kalanithi

Machine Learning

Reference:

- Shashank Kalanithi

Presentations

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