Business Analytics Practicum (MGT 4803)

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Kick-off meeting with Home Depot

- **Date**: Friday, Feb 16th
  - **Time**: 2:30 pm
  - **Duration**: 20-25 minutes
  - **Location**: Teams meeting
  - **Key Contacts at Home Depot**
    - IV Dennard (Email: `iv_dennard@homedepot.com`)
    - Hayden Dessommes (Email: `hayden_dessommes@homedepot.com`)

Logistical updates: Sparck Technology (Demo Day)

- Company site visit for undergrad business analytics practicum project
  - **When**: March 1st (Friday)
    - 10:00 AM - 1:00 PM (with a maximum duration of 3 hours)
    - Catering by Sparck during the visit
  - **Where**: Sparck at the location in Marietta, GA
  - **How to proceed?** Signing the GT waiver (which can be found in Module 6, Week 5)

- **Gain insights** into CVP systems' functionality, bridging your work with field machinery
- **Engage in discussions** on KPIs and thresholds to enhance teamwork and productivity
- Seize the chance to connect with the product engineers and service manager

Challenge for Home Depot Teams: Efficient handling of large datasets

- **Objective**: Develop a method to read hundreds of CSV files simultaneously.
- **Key Question**: How can we smartly read hundreds of CSV files all at once, instead of one by one?

- **Anish from Team #1** will wow us with his trick to do this in just four lines of Python!

Regular Pattern(regex pattern)?

- pattern = `"3dretractions_2023-10-*.csv"`
  - This line defines a pattern string that glob will use to match filenames.
  - The pattern here is `"3dretractions_2023-10-*.csv"`.
  - The asterisk `(*)` is a wildcard that matches zero or more characters.
  - This means the pattern will match any file that starts with 3dretractions_2023-10- and ends with .csv.
  - The part between the dash and .csv can be anything (including nothing).
- files = `glob.glob(pattern)`
  - This line calls the glob function from the glob module, passing the pattern defined above.
  - The glob function returns a list of filenames within the current directory that match the given pattern.

Python code

```
pattern = "3dretractions_2023-10-*.csv"
# Use glob to find files that match the pattern
files = glob.glob(pattern)
```

Google Colab (Python) Demonstration

- Please click on the link provided below
  - Real-data demo