Why do we do those Python exercises?

Overview

The objective is this class is **not** to turn you into seasoned programmers, but rather to ensure that you gain some hands-on experience with Google Colab and Python. Here's why...

- **Not Becoming Programmers**: The goal is not to turn you into expert programmers

- **Understanding Concepts**: Grasp the basics of NLP and Python for real-world applications.

- **Notebooks as Templates**: for reuse in future projects.

- **Skill Over Memorization**: The aim is to acquire practical skills, not to memorize NLTK functions or Python code.

- **Importance**: We live in a data-driven world. Basic skills in data analysis are indispensable.

- **How Python Helps**: With Python, students can conduct simple to complex data evaluations.

2. Automation

- **Importance**: Many repetitive business tasks can be automated through simple Python scripts.

- **Benefit**: This saves time and resources, allowing managers to focus on more strategic tasks.

3. Understanding Technology

- **Importance**: A basic understanding of programming helps in better assessing the possibilities and limitations of technology.

- **Benefit**: This is crucial for decision-making and communication with technical teams.

4. Flexibility

- **Importance**: Google Colab offers a cloud-based platform that's easily accessible and doesn't require any special hardware.

- **Benefit**: Students can run and even share their scripts from anywhere, facilitating collaboration.

- **Importance**: Utilizing existing Python templates allows students to create customizable solutions for a wide range of business questions.

- **How It Works**: The concept of "paint-by-numbers" applies here; students don't need to understand every detail but should be able to apply templates meaningfully to new problems.

6. Marketable Skills

- **Importance**: Even basic Python skills are a valuable addition to a resume today.

- **Benefit**: It shows that the candidate has a proactive learning attitude and is willing to look beyond their specialized field.

7. Cost-Efficiency

- **Importance**: Both Python and Google Colab are free, making them a cost-effective way for students to gain valuable skills.

Conclusion

Engaging with Google Colab and Python not only enhances technical skills but also fosters **analytical thinking**, **problem-solving abilities**, and effective **cross-disciplinary communication**.