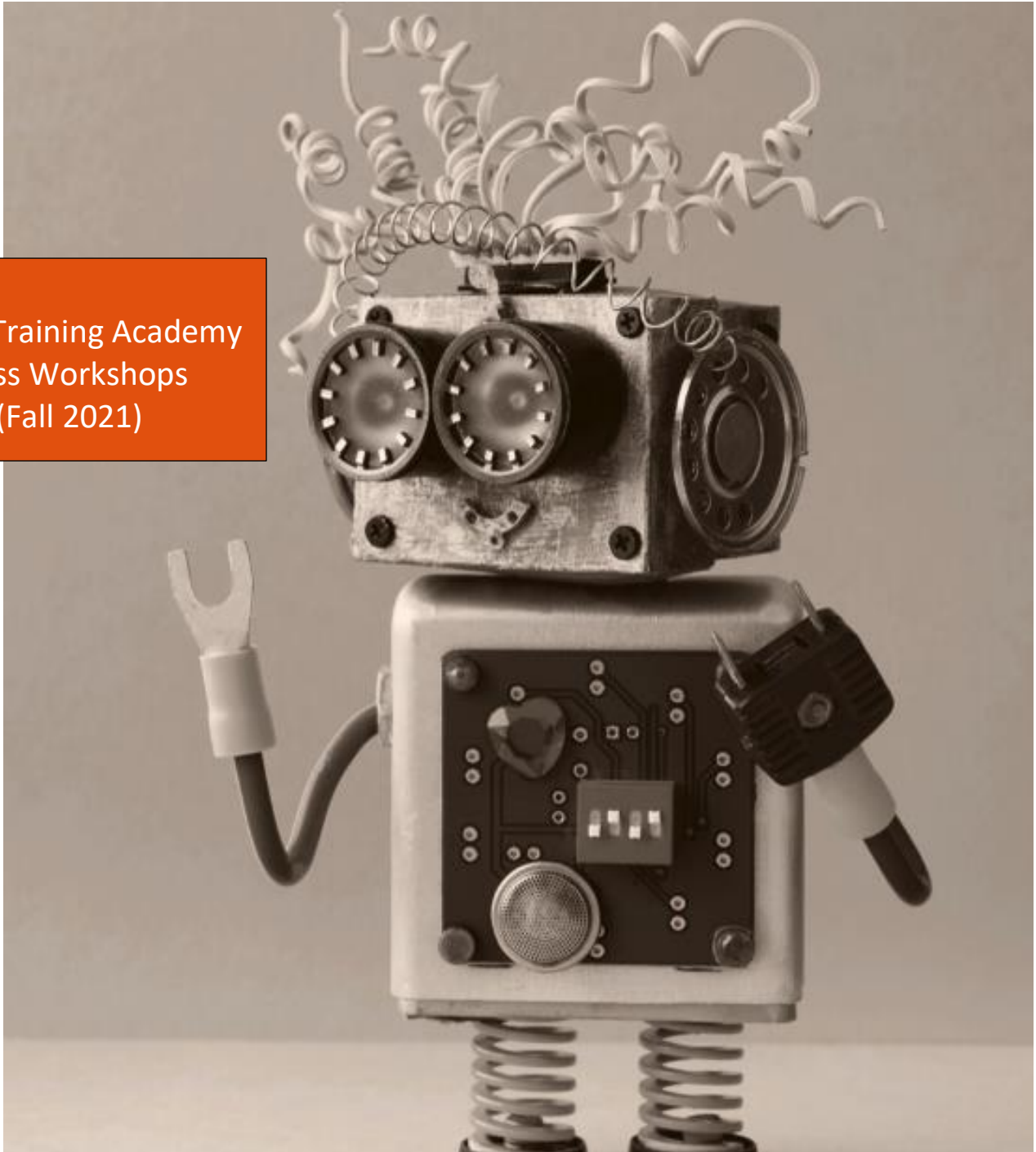Robot Training Academy
Class Workshops
(Fall 2021)

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## Workshop Purpose

The Robot Training Academy (RTA) is planning for its fall term after a successful pilot with students this summer. We are currently talking to teachers and program coordinators who would be interested in having their students attend a workshop where they learn targeted skills to help them with their academic studies.

## What's Included

- A real-world project that our data and business analysts work on everyday
- We have our own virtual easy-to-use classroom
- Students can earn our micro-credential
- Two distinct workshops – focusing on targeted skills
- Best of all, it's free!

## Workshops Offered

### Workshop I: Web Scraping

Web scraping is an essential data science skill. With students needing data for their projects, we will teach several ways of gathering data from websites. Fundamental will be ensuring that all data is ethical and clean – we only use data that is readily available and permission has been given. Our workshop will demonstrate three methods of retrieving data:

1) Getting data without code and only requiring your web browser

2) PDFs are everywhere, we will demonstrate how to obtain data from them

3) For those that are more advanced, we will have scraping with Python. Students who are not comfortable coding, the code will be available and help will be offered to get the students through the process

**Environments**: Web Browser, Google Collaborate (for anything similar that runs Python), and Tabula for PDFs

**Student Benefit**: Demystify the data gathering process from websites through several methods that will improve their data science skills and helping their term projects

**Workshop II: Understanding Data for Business Purposes**

Data helps drive business decisions and this workshop will gives students hands-on experience with the process. This workshop focuses around the combination of domain expertise and data manipulation through spreadsheets as students practice on a real industry case. By the end of the workshop, students will have completed:

1) Transformed / manipulated a dataset through a multi-step process

2) Evaluated the data – determine what data is useful and what is not

3) Analyze the data and then create a small presentation

**Environments**: Microsoft Excel and Power Point (or equivalent)

**Student Benefit:** Students will gain experience in a multi-step project that involves putting data together to support a business case and create an analysis. This will help them prepare for their own in-class presentations and case studies through communicating with data.

## Dates Available

Workshop I: Web Scraping is being offered on **October 4$^{th}$ at 7:00pm EST until 9:00pm EST.**

Workshop II: Understanding Data for Business Purposes is being offered on **October 25$^{th}$ at 7:00pm EST until 9:00pm EST.**

## Next Steps

Interested in signing up your class or need additional information? Reach out to the [training coordinator](#) at the RTA to discuss the details.

## Optional credentials

The RTA prides itself in offering micro-credentials to students who have completed work assignments with us. We are offering two tracks of workshops in the fall:

1) Students who want to just learn about the material and practice

2) Students who want to take it a step further and complete a set amount of work related to the workshop followed by passing a quality check from our data or business analyst

Successful completion of the second track will earn a student a micro-credential that they can share on social media!

## Micro-credential Work Requirements

For students wanting to earn a micro credential or teachers wanting to assign this workshop as part of an in-class activity, we have micro-credentials that verify the work that the student has completed.

1) Students will have two weeks from the date of the workshop to complete the assessment.

2) The amount of work to earn a micro-credential will vary from **2-4 additional hours** outside of the workshop depending on their abilities. Students will be supported through that process with assistance if required.

**We hope to see you in the fall,**
**The Robot Training Academy**