**MTA Data Analytics Case Competition**

With data analytics becoming an increasingly valued skill in the modern workplace, MTA together with The BRIDGE has conducted a series of 3 workshops taught by professionals.

Introduction to Sports Analytics, Python, CSV, & API, and Data Visualization using Power BI.

This case competition allows students to showcase what they learnt by displaying understanding of python, data manipulation and visualization.

**Submission Instructions/Guidelines**

Teams will submit their Power BI Report (pbix) and their code (in python or jyupter notebook) to **mtecha.utsc@gmail.com**.

All answers must be presented on the Power BI Dashboard and clearly marked, except for the python questions, which must be turned in as a python file and csv files.

The BRIDGE will be open to students from 9AM – 5PM any day for you to come in and finish your work.

The deadline for the competition is **November 21st at 11:59PM**.

**MTA Data Analytics Case Competition Question**

**Python Section:**

“Defenders often need to be **physically strong** in order to **compete** and **progress** in the world cup”.

Investigate the validity of this claim using the world cup data provided.

You may use the worldcup.position(player\_id) function to find the position of a specific player with id player\_id.

**Power BI Section:**

1. Investigate the changes in average height of the teams in the world cup has changed from 2006-2018.
2. Using a visual of your choice, show which teams are most likely to be in the semi-finals.
3. With the information provided, present actionable insights into how each team will perform in the World Cup. (Students choose the chart they believe to be the best to present this information.
4. Select 4 random teams to analyze the top scorer from each team.

The deadline for the competition is **November 21st at 11:59PM**.

The top 7 submissions will get a chance to present their findings on November 23rd.

The students need to submit their reports to **mtecha.utsc@gmail.com**.