

STATISTICS ANALYSIS CHALLENGE

BANK HEIST BUST

cash prize: \$400

Date: Saturday, March 25th, 2023

Sign-in: 10:15am

Contest ends @ 2:30pm

Deadline to sign up: March 23th

Project

A group of hackers are among a bank's clientele. The bank has an app and ATMs like most. We need to find the hackers present in the system and remove them before they steal money from innocent people.

Challenge: Find the name of the hackers.

You will have 3.5 hours (this includes two 10 minute breaks. Good luck.

Subjects to Review:

You **ONLY** need **ONE** skill from this list to be able to participate, everyone will be split into different teams and have a different role within that team:

- Excel → Manager
- Math → Special Agent
- Stats → Analyst
- Python → Anti-Hacker
- Machine Learning → AI Specialist
- Required Excel skills:
 - Pivot Tables
 - V-Look Up
 - Replacing Values
 - Filtering
 - Visuals
 - Functions
- Required Statistical/Math concepts:
 - Outliers
 - Median
 - Mode
 - Average
 - Subtraction/Addition
 - Bar graph
 - Sampling
 - Probability
 - Integration
 - Geometry
 - Standard Deviation
- Required Python knowledge:
 - Grouping / Pivot Tables
 - Subsetting
 - Inner Join and Outer Joins
 - Removing Duplicates
 - Dealing with Null values
- Required Machine knowledge:
 - Python or R
 - K means clustering
 - BIRCH algorithm (not needed but useful)
 - Preparing data for Machine Learning

Questions?

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More Information:

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