# **GIGL**

# Group 3 Project - Tutorial

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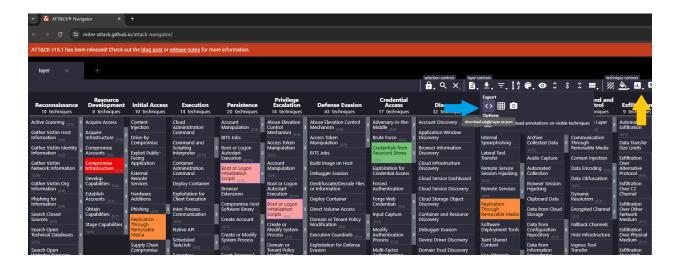
Software that transforms an execution graph path from MITRE ATT&CK into Bayesian representation using the UnBBayes API, incorporating the capacity to elicit and measure uncertainty in the new model representation

#### 1. Setup Endpoint

Browse to UnBBayes modeling framework <u>https://sourceforge.net/projects/unbbayes</u> and install. The operation of the tool is outside the scope of this tutorial

## 2. Prepare Input

Browse to MITRE ATT&CK Navigator, <a href="https://mitre-attack.github.io/attack-navigator">https://mitre-attack.github.io/attack-navigator</a> and generate input to GIGL by creating a Layer, highlighting Techniques, assigning each a Score (yellow arrow) and Exporting to JSON (blue arrow). The remaining operation of the web app is outside the scope of this tutorial



## 3. Download Repository

git clone https://github.com/chrimson/GIGL.git
cd GIGL

#### 4. Enable Required Dependency

pip install pgmpy

## 5. Execute

python3 start.py layer\_by\_operation.json mitre\_attack\_bayesian.net
Bayesian Network model is valid
Bayesian Network exported

## 6. Examine Result

Run UnBBayes and load the output Bayesian Network file

