Problem 2

Tamas Abraham
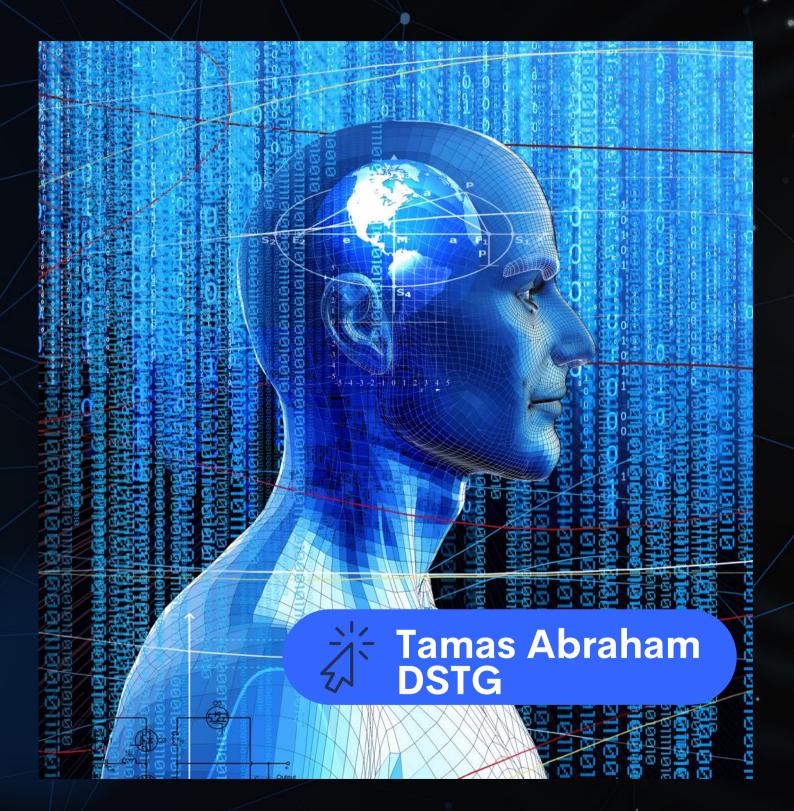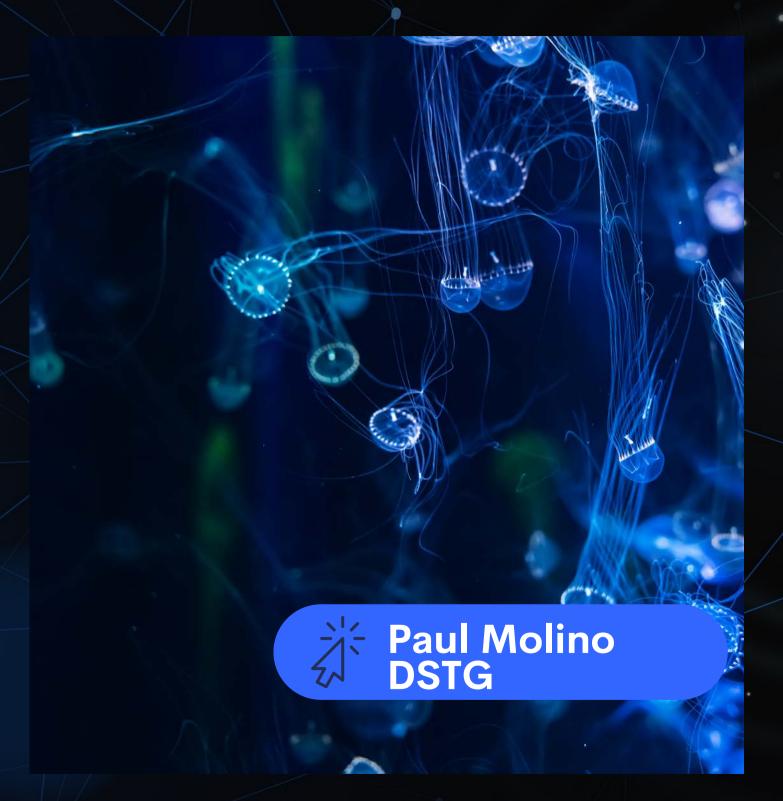**DSTG**

Mitigating denial of service vulnerabilities in machine learning algorithms

How do we test, evaluate, and certify a machine learning algorithm's resiliency against attacks that aim to slow down its performance? How do we identify what attacks can slow down a deployed machine learning solution? Are there any approaches that may make ML algorithms more resilient to DoS attacks aiming to exploit their inherent weaknesses?

Problem 3

Remote Environmental Sensing of Marine Phytoplankton Communities Using Undersea and Above-Water Platforms

What optical sensing techniques and technology platforms are being developed in Australia that are capable of generating data to aid in determining real-time classification of phytoplankton concentration and corresponding environmental parameters in the water column?

Paul Molino
DSTG