

# UAV Threat Classification & Prediction

Team Number: 5

*Leaning Tower of Pizza:*

*Tanmeet*

*Anubhav*

*Kinley*

*Phong*

*Datta*



# Our Challenge

1

2

3

4

- Learn *normal* drone behavior in complex environments
- Detects subtle behavioral deviations in real time
- Distinguishes **benign** activity from **hostile intent**
- Provides early warning without disrupting lawful operations

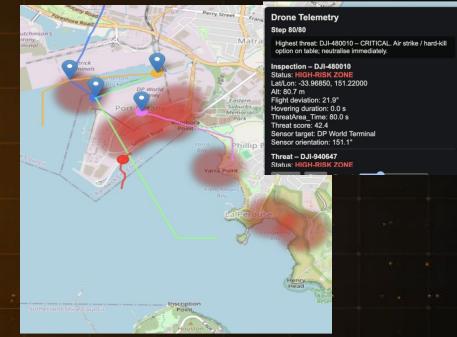
# Solution



RF Reader



Drone Detection and  
Tracking Model



Threat Monitoring  
System

# How we are making the solution work

Vision

Policy  
Monitoring  
System

Eagle Kill

# Why Counter-UAS Intelligence Is Critical to Port Continuity

01

A single strike can disrupt port operations → **multi-million \$ losses per day** in revenue & logistics

02

Maritime routes rerouted due to UAS threats increase shipping costs by ~140% and add days to transit schedule

03

Autonomous intent detection reduces **false positive stand-downs**, keeping ports operational

# How can it be Mass Manufactured and Deployed?



# Deployment Cost - Setup & Ops

- Camera & C2 systems → \$50k
- Edge compute → **\$10k–\$15k**
- COTS RF scanner / SDR (3 Unit) → **\$3k-\$5k**
- Software integration & Model Training→ **\$20k**
- **Total per site: <\$100k**

## Demo Link:

<https://drive.google.com/file/d/1PJLfwVeVLP3Y8uivKmJkCtpopVtdnUlo/view?usp=sharing>

# Team Number 5: The Leaning Tower of Pizza

# Q&A?

QUESTIONS & ANSWERS

