

# HACK WITH HYDERABAD

## 2025

Problem Statement Chosen: Duality AI – Space Station Challenge

**TEAM NAME:** INTEL FREAKS

**TEAM MEMBERS:**

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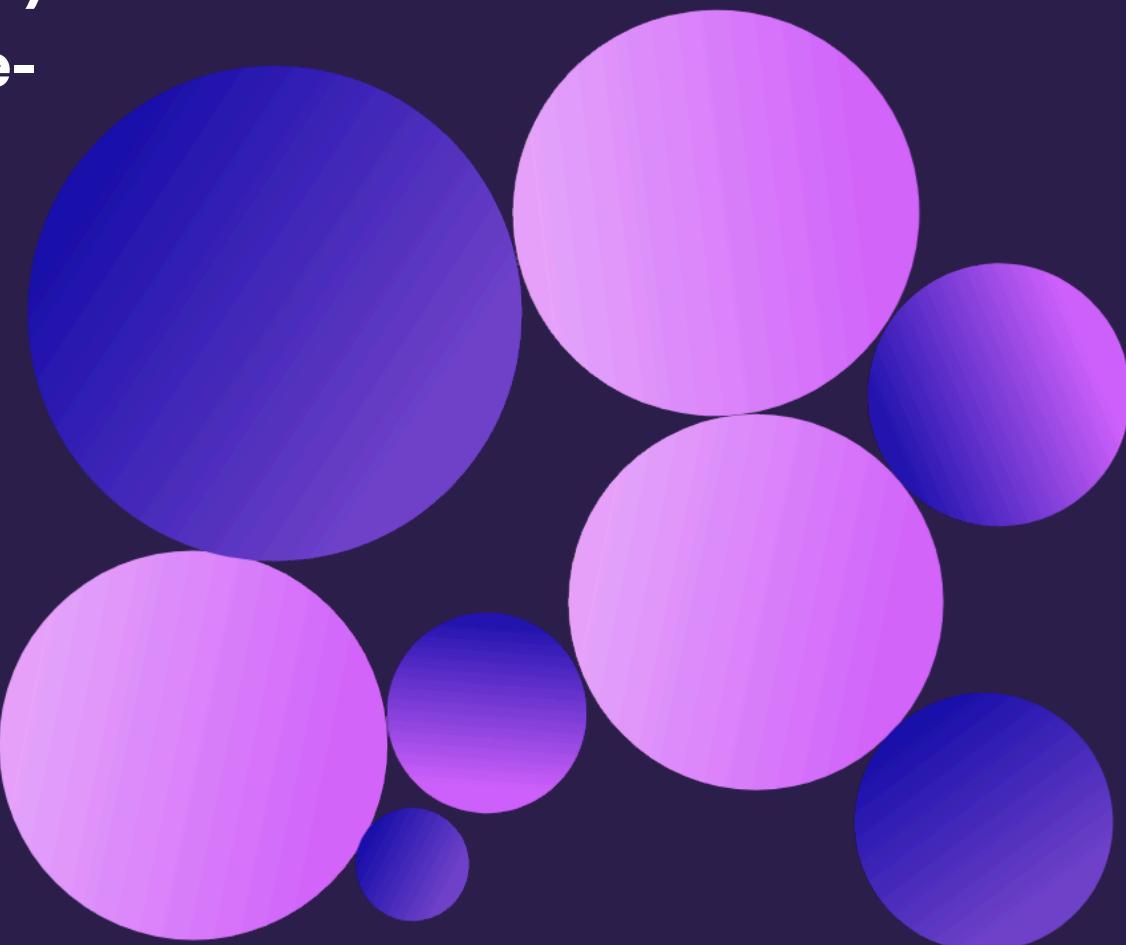
# WHY THIS PROBLEM STATEMENT?

- Cutting-edge AI/ML domain (object detection)
- High learning + practical exposure to simulations
- More impactful than regular business logic problems
- Strong potential to impress judges



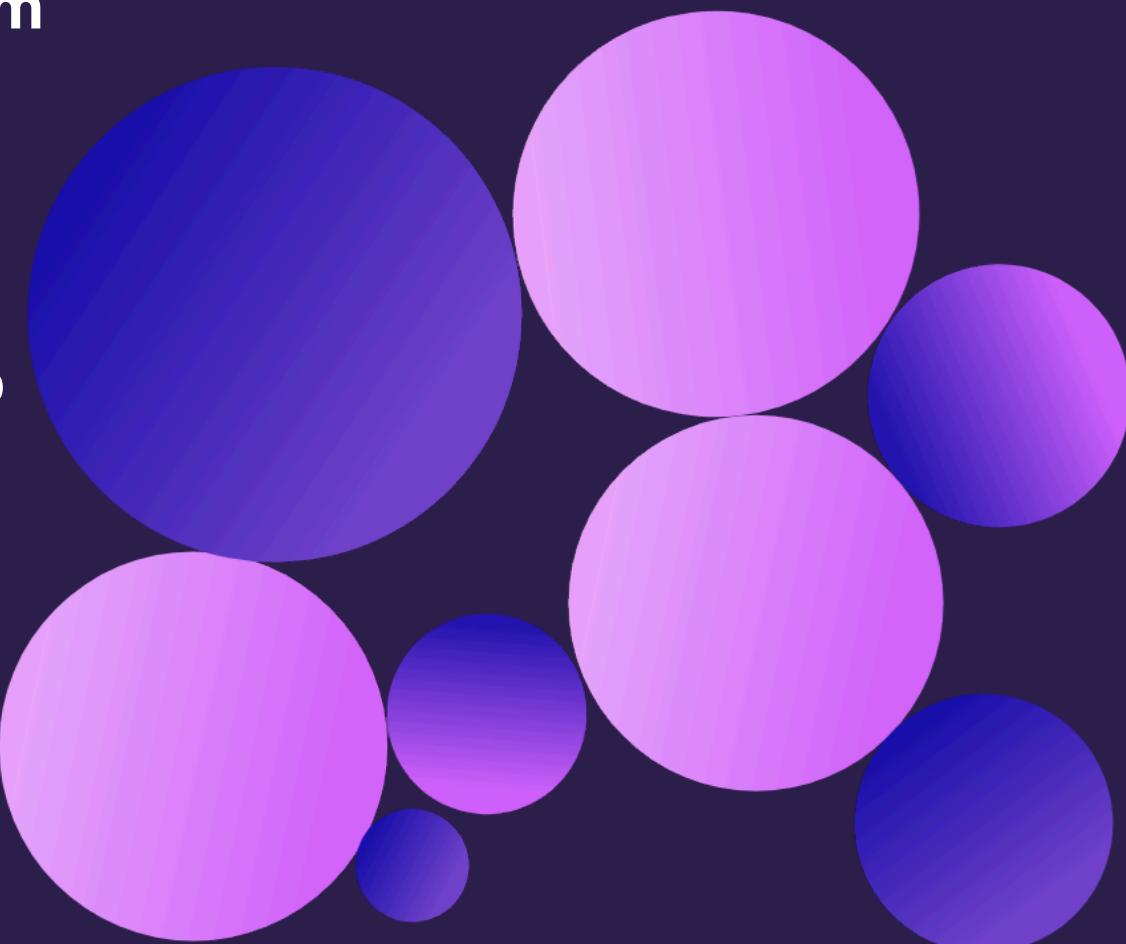
# OUR APPROACH (PLAN)

- 1. Setup environment (Python, PyTorch, Falcon platform)
- 2. Use pretrained model (YOLO/Faster R-CNN) and fine-tune dataset
- 3. Evaluate with metrics (mAP, precision, recall)
- 4. Run model inside Falcon simulation
- 5. Prepare report + demo video



# EXPECTED OUTCOMES

- Working object detection model in Falcon platform
  - Clear performance metrics and results
  - Use-case extension (industrial safety, robotics, monitoring)
  - Valuable AI/ML project for hackathon & portfolio



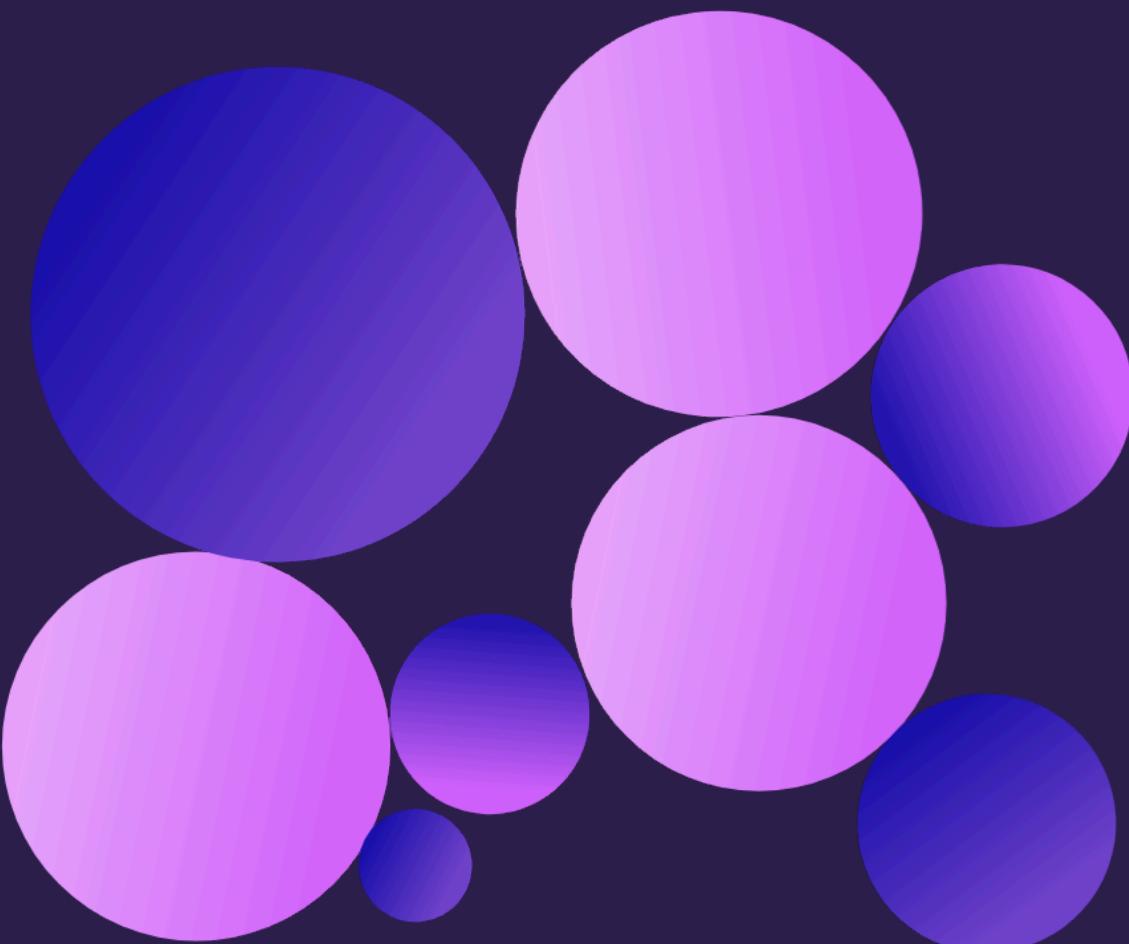
# WHY DUALITY AI IS THE RIGHT CHOICE FOR US

- Strong learning opportunity in AI/ML + computer vision
  - Exposure to real-world simulation tools
- More innovative & challenging than finance/business problems
- Aligns with hackathon theme of innovation + impact



# TEAM SKILLS & CONFIDENCE

- Familiar with Python & ML basics
- Quick learners, can adapt to Falcon documentation
- Interest in AI/ML challenges
- Confident to deliver demo + presentation



THANK YOU!