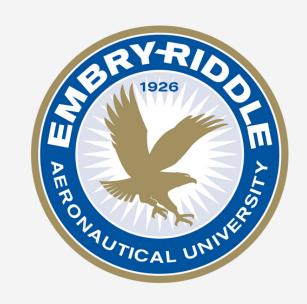
## 2022 ERAU REU: Ensemble Deep Learning



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## Nevada National Security Site (NNSS)

- Nuclear Weapons Science
- Nuclear Emergency Response

- National security programs
- Environmental Protection



## **Problem Introduction**

 Radiographic image analysis using convolutional neural networks

- Aids in nuclear tests analysis
  - National security
  - Nuclear weapons safety





## Project Scope

- Develop a network using Python and train it using image data
- Probability model and uncertainty quantification

