

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

