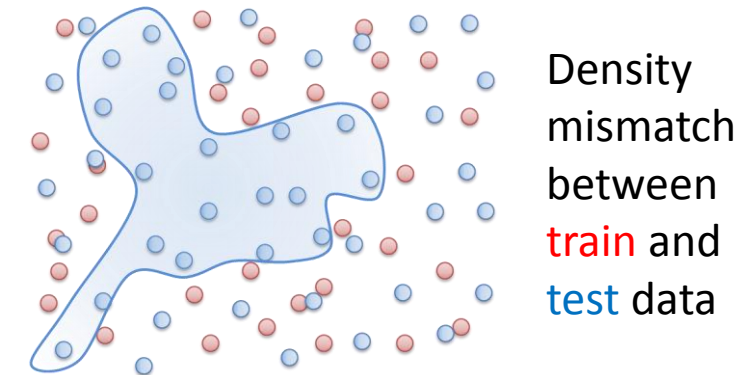
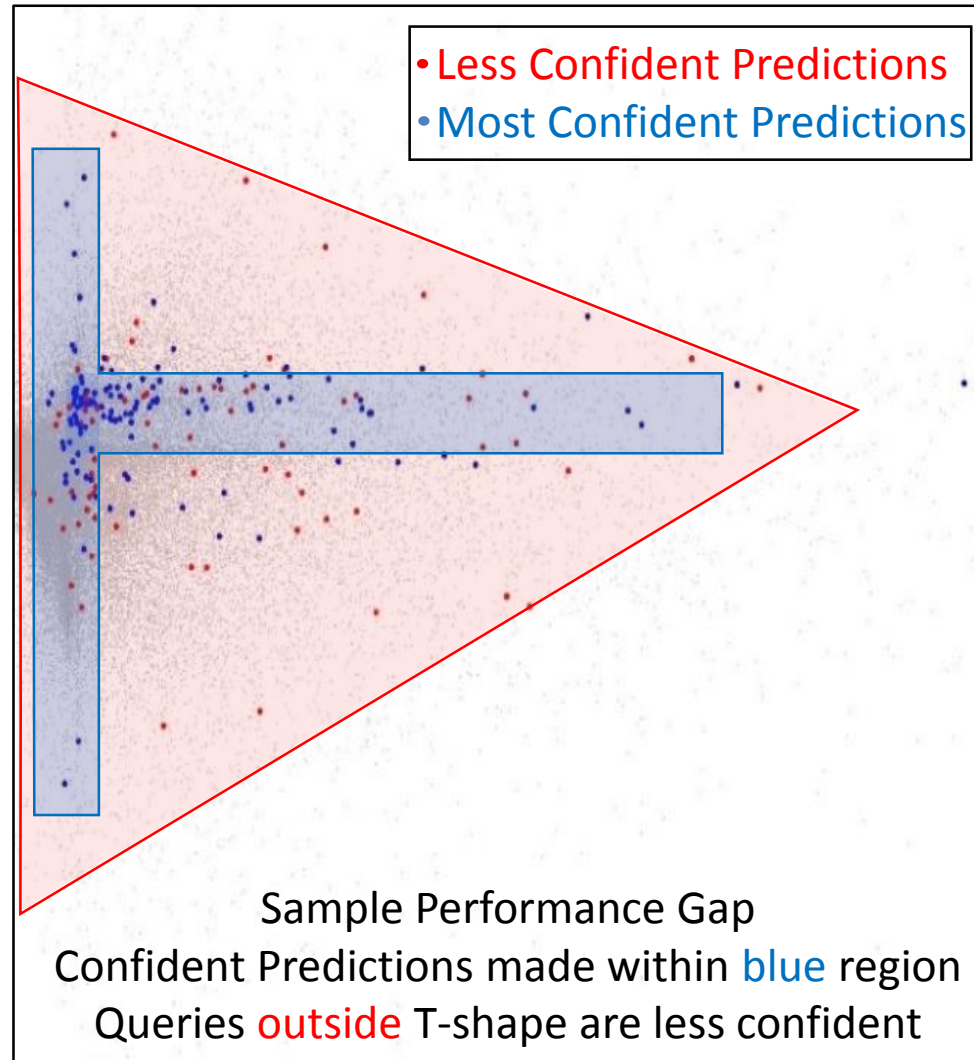


Finding Meaningful Gaps to Guide Data Acquisition for a Radiation Adjudication System

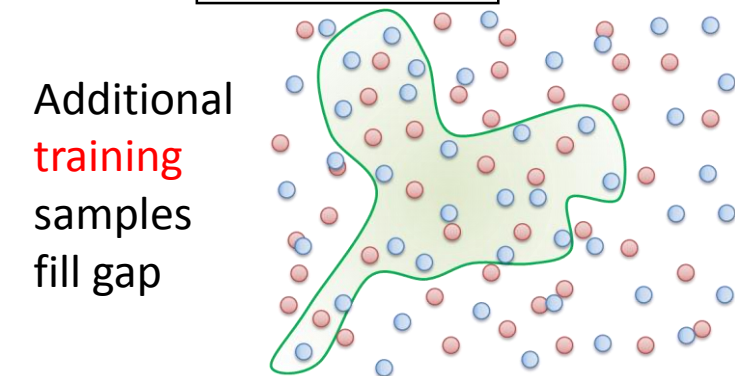
Nick Gisolfi, Madalina Fiterau, Artur Dubrawski



1. Nuclear Threat Detection
2. Empirical/Synthetic Data
3. Big vs. Smart Data
4. Gap Finding Framework
5. Fill Training Data Gaps
6. Improve Model Accuracy



Targeted Data Collection



Accuracy Improvement

| Baseline | More Data | Fill Gap |
|----------|-----------|----------|
| 75.0% | 75.2% | 75.7% |