

- Our poster is about using deep learning to automatically detect and classify earthquakes, a method that dramatically speeds up seismic analysis.
- The vast scale of seismic data now exceeds what humans can analyze manually.
- We developed a complete pipeline: transforming raw seismic waveforms into spectrograms,
  then training a YOLOv8 model on a large auto-annotated dataset to not only detect but also classify events as local or regional.
- The model excels at classifying local (96%) and regional (91%) earthquakes with minimal confusion between them.
- Questions? Ideas? Find us at the poster!







