Unsupervised Learning - Internship Opportunities at IARAI

Apply here: https://www.iarai.ac.at/openings/unsupervised-learning-internship-opportunities-at-iarai/

We invite applications for Internship Opportunities at IARAI in the following fields of activity:

- **Geospatially explicit neural networks**
- **Unsupervised LULC classification with DRL**

Responsibilities

- Programming ANN layers which can handle geospatial vector data
- Create a DRL environment which can input remote sensing imagery and classify pixels

Skills required

- Basic machine learning knowledge
- Good programming skills in Python
- Familiar with Pytorch/Tensorflow

We offer

- Paid internship
- Access to the IARAI infrastructure
- Supervised by our research scientists
- A chance to work on unique bleeding-edge problems
- Interaction and exchange with first-class specialists

Requirements to apply

- Applicants must be eligible to work in Austria

Further details

Location: Vienna, Austria
Duration: 3-6 months
Start date: as soon as possible

Further information

The Institute of Advanced Research in Artificial Intelligence (IARAI) pursues both basic and applied research in Artificial Intelligence.

Critical analyses and fundamental studies seek novel insights that shape the future of our society. Key areas of research include:

World Simulation – We train in simulators by reinforcement learning or other meta-learning strategies to study climate change models, smart cities, sustainable mobility, fleet management, etc.

Prediction through Description – We investigate the reliability and interpretability of modern machine learning models. We focus on high impact questions such as predicting patterns in urban traffic or large-scale rainfall, assessing climate change, biomedical image classification, and helping discover new drugs.

A Theory of AI – We work towards a rigorous understanding of the success of the latest 'black-box' algorithms that is also intuitive to humans.

We are building a unique environment of world-class researchers and industrial-scale real-world data openly shared with the scientific community. We take a proudly interdisciplinary approach to bring together top talent from complementary fields, combining in-depth domain knowledge in AI, simulation, and geospatial analysis from academia and industry. All our research is open and published. Contact us to contribute and join us. We organize and sponsor scientific visits, research exchanges, multi-month thematic focus programmes, and academic competitions such as Traffic4cast at NeurIPS.

See www.iarai.ac.at/the-institute to learn more.