

IT Officer - Sustainable AI: Carbon Footprint Measurement & SLURM Optimization

Deadline: 15th May, 2025

Machine Learning Section, UCPH

Duration: 12 months (15 hours/ week).

Position Overview

We are looking for a candidate to join our "Sustainable AI" team. This position will focus on maintaining methods to measure the carbon footprint of large-scale AI computations and integrating them with the SLURM scheduling framework for enhanced efficiency and reduced environmental impact.

Application

Candidates are requested to read the call carefully and apply via email. Submit CV, transcript of grades, and an optional cover letter.

Responsibilities

- Use appropriate tools for measuring the carbon footprint of large-scale AI computations.
- Integrate SLURM scheduling strategies to optimize computational tasks for reduced energy consumption and

enhanced efficiency.

Qualifications

- 3rd year BSc or 1st year MSc in CS, or a related field at UCPH.

- Proficiency in Python, Bash, or similar for tool development and optimization is mandatory.

- Familiarity with *nix systems and optionally SLURM scheduling systems used in high-performance computing environments

- Excellent analytical, problem-solving, and written English skills.

Benefits

- Hands-on experience in cutting-edge AI research with a focus on sustainability and computational efficiency.

- Contribution to groundbreaking solutions for reducing the environmental impact of AI technologies.

- Possibilities of research publications and travel to conferences

Contact

raghav@di.ku.dk