

Artificial Intelligence Engineer for Urban Climate

Employment Type: Full-time / Part-time
Location: Munich, Germany
Start Date: June 2024



Climateflux

Position Purpose:

The successful applicant will lead our project focusing on the application of Artificial Intelligence (AI) to develop models for urban microclimate using high resolution datasets across urban settings in the city of Munich. This role involves building a theoretical framework, data collection, AI model development, and operational management to forecast and understand extreme heat events.

Key Responsibilities:

- Build comprehensive analytical applications of AI models for climate studies.
- Statistical understanding of AI applications for Geospatial data analysis.
- Plan and manage onsite data collection campaigns across various urban environments.
- Oversee data management, analysis, post-processing, and structuring using cloud services.
- Develop, test, and optimize AI model architecture and hyperparameters.
- Evaluate and ensure the model's generalization capabilities on unseen data.
- Establish and maintain infrastructure on AWS for hosting the trained AI model.
- Develop and manage data pipelines from the lakehouse to the AI model for efficient data retrieval and analysis.

Required Skills and Qualifications:

- Advanced degree in a relevant field (e.g., Climate Sciences, Environmental Engineering, Computer Science).
- Proficiency with the Python ecosystem of machine learning libraries, having experience with software development management tools (JIRA, Git), and having exposure to a variety of machine learning techniques.
- Proven experience in AI, machine learning, or related field (work samples are required).
- Strong understanding of climate science and data collection techniques.
- Proficient in data analysis, model development, and cloud computing environments.
- Proficient language skills in German.

Desired Characteristics:

- Detail-oriented with a passion for accuracy and innovation.
- Ability to work collaboratively in a dynamic, interdisciplinary team.
- Enthusiastic about contributing to climate research.
- Excellent verbal and written communication skills (English and German)

Working Conditions:

- The position requires the applicant to reside in Munich area for the field data collection and collaborative meetings.
- The position requires flexible working hours to accommodate data collection campaigns and project needs.

About us:

Climateflux is a company researching and working in the field of environmental data science in cities. Our main focus is highlighting the interactions between outdoor environmental quality and people's presence, for improving the quality of the urban experience. We employ data mining and data analytics combined with computational methods to make human well-being and health an inseparable dimension of decision making and design.

Application requirements:

- 1 page resume.
- Work samples of contributed AI projects.

Please send your application to office@climateflux.com before January 31st, 2024.

Incomplete applications will not be considered for further processing.