

Data Scientist (Post-Doc, full-time)



wikimove

Data Scientist/Data Analyst (f/m/d)

Smart City/Mobility-as-a-Service/Data Science

wikimove

DE-96047 Bamberg

Job Description

Type of Job: Full-time (Remote/Hybrid/Onsite)

Seniority Level: Post-Doc-Phase, PhD, Tech-Lead

Start Date: ASAP

Full Description

In this role, you will work on anonymization and pseudonymization technologies and lead the cross-stakeholder collaboration between us, the University of Bamberg and a few more stakeholders in the project "Explanym: Explainable Anonymization of Intermodal Mobility Data" for the next three years with a total budget of about two million Euros in research funding from the German Federal Ministry of Education and Research.

Our key question is: How can we anonymize mobility data in urban areas and companies in such a way that meaningful analyses are possible while protecting people's privacy as much as possible? And can we develop explanations for this anonymization that are also understandable to laypersons?

In the "city" use case, we are particularly interested in sustainable mobility (cycling, public transport, e-scooters, etc.) and we will collaborate with stakeholders from the "clinic" use case to see if we can transfer knowledge and technologies. Specific field studies in the city of Bamberg are planned.

Your Tasks

You will conduct research on anonymization and pseudonymization technologies and approaches. You will lead the interdisciplinary collaboration with the University of Bamberg and other stakeholders. You will implement, test and validate technical proofs of concept. You will transfer and implement the results into 'real-world' mobility applications. You will protect people's privacy as much as possible without losing sight of the data utility. You will make our technologies and approaches understandable for non-experts.

You will closely collaborate with the backend- and frontend-teams and UI/UX-Designers.

In addition, you will support the team with your interdisciplinary knowledge and experience. This includes monitoring the proper use of anonymization and pseudonymization technologies and approaches in real-world applications.

Technical Requirements

- A university degree (master's degree) in computer science, information systems, computing in the humanities, psychology, or related subjects (diploma/master's degree or comparable) completed in the upper grade range.
- A completed or currently completed PhD in computer science related fields as well as in-depth competencies in the area of data analysis/data science
- Experience with Graph-Databases (Neo4J)
- Experience with reactive programming model
- Experience with Stream Processing (Kafka)
- Experience with Data Lakehouses
- Experience with anonymization and pseudonymization methods
- Experience with data visualization
- Optional, but desirable: Experience with React
- Optional, but desirable: Experience with software architectures
- Optional, but desirable: Experience with microservice-based architectures
- Optional, but desirable: Experience in Java and Spring-Boot
- Optional, but desirable: Experience with keycloak
- Optional, but desirable: Experience in DevOps
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Soft Skills

- Good language skills in English
- Desirable: experience as project manager and/or product manager
- Optional, but desirable: language skills in German
- Optional, but desirable: experience as a team leader

Our Offer

- An interdisciplinary research project with the opportunity for scientific qualification (PhD or PostDoc phase) in the field of computer science or psychology.
- The opportunity to participate in further Smart City-related projects via the Smart City Research Lab's doctoral program, e.g. by supervising student group projects.
- Optional office spaces at the University of Bamberg
- Great networking and collaboration opportunities within the startup and scientific world
- Agile and dynamic work environment with many opportunities to contribute/develop.
- Personal development: access to Techstars mentors, professors and others, high growth potential as an early employee
- Flexibility: flexible working hours and locations depending on individual needs and requirements
- Variety: Interesting, challenging and changing tasks and requirements
- Competitive compensation

About wikimove

wikimove is a Techstars-backed company that aims to accelerate the transition from motorized mass transit to shared mobility and Mobility-as-a-Service.

Website: <https://wikimove.me/>

Hiring Manager:

Daniel Wolpert

Phone: +49 173 6156263

email: info@wikimove.me

Industry: Ground Passenger Transportation Company, team size 10-20

Specialties: Mobility as a Service, Transportation, Mobility Management, Shared Mobility, Smart Mobility, Smart City

Our Support



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