

Data Science Project Managers - Data Science for Social Good^x Germany

Can you use your data skills to help others? Would you like to make a real difference to people's lives and help some of the top emerging data scientists to fulfill their potential and help NGOs, charities, government organizations to make a difference? Would you like to work with us during the summer of 2022 and see how data can be used to work on real world projects that create change? If you have a passion for data science, care about the social good, and love to work in an international team of top talent, then we're looking for some exceptional people and maybe, that could be you.

THE ORGANISATIONS

The University of Kaiserslautern has gained a high reputation in science, technology and industry in only a short period of time and holds top positions in Germany's university [ranking](#), for instance [ranked 3rd in overall study situation for computer science](#). DSSG fits well within the university which offers a graduate program in [Socioinformatics](#) (deals with the analysis and modeling of the interaction between society and computer science, the co-evolution of social norms and processes and the supporting software).

The German Research Center for Artificial Intelligence (DFKI) was founded in 1988 as a non-profit public-private partnership. It has research facilities in Kaiserslautern, Saarbrücken and Bremen, a project office in Berlin, a Laboratory in Niedersachsen and branch offices in Lübeck and Trier. In the field of innovative commercial software technology using Artificial Intelligence, DFKI is the leading research center in Germany. The DFKI's focus is application oriented basic research, DFKI develops product functions, prototypes and solutions in the field of information and communication technology.

THE ROLE

The Data Science for Social Good Germany programme ([DSSGx Germany](#)) is a 12-week project-based training activity designed to give aspiring data scientists a strong skill set for solving real-world problems and an understanding, excitement, and passion for solving problems with social impact. Working closely with governments, charities and nonprofits, fellows take on real-world problems in education, health, international development, and more. Previous Technical Mentors (TMs) have found the overall experience of DSSGx really

rewarding, working on projects that deliver real world solutions alongside highly skilled, motivated and committed fellows. DSSGx is part of a growing, global network of using 'Data for Social Good', of which the TMs can become part.

The Data Science Technical Mentors (TMs) are a critical component of DSSGx. TMs work with dedicated teams of fellows and provide hands-on technical mentoring and data science expertise to the projects. Each TM is teamed up with a Project Manager who leads the relationship with the project partner as well as making sure the team is moving forward. Mentors will also help teach workshops and tutorials over the summer and are an integral part of the organizing team.

An ideal TM is an experienced data scientist with strong technical skills, practical experience, with an interest in mentoring students to learn real-world skills and make a social impact. Typically, TMs have worked in industry for a significant amount of time; working in areas such as Computer Science, Machine Learning, Social Science, Statistics, and related areas, and have experience working on data science problems.

This role will be for 14 weeks between 29 May – 2 September 2022. You will be based at the Technical University Kaiserslautern and the German Research Center for AI (DFKI). We are looking for two full time TMs, but there is potential for a job share for the right applicants.

Your duties and responsibilities:

- Technical lead on 2-3 projects with 3-4 Fellows per team
- Technical adviser
- Teach workshops and tutorials
- Develop some material for the taught components

You will need to show you have the 'Right to Work' in the Germany, which may require a visa.

To apply:

- Send a **short statement letter** stating why you would be the ideal candidate for the position (~1 page)
- **Include a detailed CV**, with special focus on: obtained degrees, classes taken in relevant topics, publications, programming skills, experience working on social impact projects, your track record.

Interested applicants should send the above documents in a single PDF document quoting "Technical Mentor Application, DSSGx" via email to: team_dssgx@dfki.de

PERSON SPECIFICATION

The successful candidate will have:

ESSENTIAL

- Competent methodological background in applied ML and applied data science • Experience with either data science / machine learning toolkits in Python (Panda, NumPy, Matplotlib, Scikit- Learn, Beautiful Soup)
- Real world, professional experience in a field that utilizes modern day data science tools and methodologies
- An understanding of the importance of good practices for producing reliable software and reproducible analyses: software project management and collaborative coding, Git and Github, issue tracking, literate analysis tools such as Jupyter
- Demonstrated enthusiasm and ability to rapidly assimilate new computational and mathematical ideas and techniques on the job, at a more than superficial level, and apply them successfully
- A desire to use data for global ethical and social good, that generates a social

impact

DESIRABLE

We do not expect any candidate to have experience of all of the below! We are a learning team, combining many techniques and approaches to address our projects. Successful candidates will be

able to demonstrate existing knowledge of more than one criteria, depending on experience level, and, importantly, a commitment to develop new expertise in others.

- Experience working on social impact projects and passion for making a social impact;
- Experience in using large, scalable relational databases, ranging from postgresql to redshift • Writing technical documentation.
- Experience with public cloud platforms.
- Experience working with confidential and sensitive data for research.
- Experience contributing to, maintaining and/or leading open source research software projects.
- Experience building open source communities.
- Working with databases and APIs for the acquisition of parameter information for models. • Developing and/or delivering teaching and training in computational or

mathematical methods for research.

- Automated testing, software quality assurance and continuous integration.