



Technical Mentor Data Science for Social Good 2023

The Chair of Statistical Learning and Data Science at the Ludwig-Maximilians-Universität in Munich, led by Prof. Dr. Bernd Bischl, and the Chair for Statistics and Data Science in the Social Sciences and the Humanities (SODA), led by Prof. Frauke Kreuter are looking for outstanding applications for a Technical Mentor.

This year, the two LMU chairs and the Munich Center for Machine Learning (MCML) will join forces to host the first DSSGx chapter in Munich. Data Science for Social Good or DSSG, is an initiative founded at the University of Chicago in 2013, its mission is to create and sustain programs, solutions and communities that enhance the use of data science and AI for social good.

For more information, see our website (<https://sites.google.com/view/dssgx-munich-2023/startseite>) and the website of the DSSG organisation (<http://www.datascienceforsocialgood.org/>)

The 8-week project-based training programme, will run from 1 August to 29 September 2023. It is designed to give young data scientists a strong skill set for solving real-world problems and an understanding, excitement, and passion for solving problems with social impact. We have three goals (prioritised in that order):

- Training Fellows: We want to help create the next generation of data scientists who have the data science skills to solve real-world problems and are passionate about focusing their efforts on solving social challenges
- <https://www.casio-schulrechner.de/de/produkte/grafikrechner/fx9860g2/working> together to make an impact
- Exposing and training project partners (typically governments and non-profits) to more effectively use data to make better decisions

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.

TMs are experienced data scientists with strong technical skills, practical experience, with an interest in mentoring students to learn real-world skills and make a social impact. Typically but not exclusively, 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 industry experience working on data science problems.

This role will be for **12 weeks between 17 July – 13 October 2023 at the LMU, Munich.**

Your duties and responsibilities:

- Project Lead on 2 projects of 4-5 Fellows
- Technical adviser
- Teach workshops and tutorials
- Develop some material for the taught components

Your profile:

Essential:

- Competent methodological background in applied ML and applied data science
- Experience with either data science / machine learning toolkits in Python (Pandas, NumPy, Matplotlib, Scikit-Learn, Beautiful Soup) or R (mlr, caret, tidyverse).
- 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 and Rmarkdown
- 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

Desirable:

- PhD in Data Science related fields
- Experience working on social impact projects and passion for making a social impact
- Experience with handling larger data and computationally expensive ML tasks on clusters or cloud computing environment
- Experience in using large, scalable relational databases, ranging from PostgreSQL to redshift
- User interface design and development with web technologies, especially for data visualisation and knowledge representation
- Developing and/or delivering teaching and training in computational or mathematical methods for research.

Application Procedure:

If you are interested in the position, please provide:

- A short statement letter promoting you as the ideal candidate for the position (~1 page)
- A detailed CV, with special focus on: obtained degrees, taken classes in relevant topics, publications, programming skills, experience working on social impact projects, track record

The university is an equal opportunity employer. Handicapped applicants will be given preference in the case of approximately equal qualifications. LMU Munich is interested in increasing the number of female faculty members and strongly encourages women to apply.

Due to the nature of the funding, preference will be given to applicants from EU members states.

Interested applicants should send the necessary documents in a single PDF document quoting "Technical Mentor Application, DSSGx" via email to:

E-Mail:

dssg2023@stat.uni-muenchen.de

Closing date for applications: 31.03.2023

Terms and Conditions

This full-time job is offered on a fixed-term basis. The annual salary will be oriented at the TV-L E-13 salaries for employees of the Federal State of Bavaria.