Student Assistant: Frontend Developer in a NLP project for Digital Humanities

**Description:** Language Technology Group at the Department of Informatics, University of Hamburg, is looking for a motivated student assistant (m/f/d) with a strong interest in state-of-the-art NLP technologies and modern web frameworks to assist us with the frontend development of a novel web application for social scientists.

These days, the flood of information available for a given topic is above the level of what humans can digest in a reasonable amount of time. However, this would be of great importance to find, examine, and describe complex phenomena of modern societies. Fortunately, state-of-the-art artificial intelligence used for natural language processing is more and more capable of understanding human language in context and can assist in processing and analyzing big data.

The LT group is building a cutting-edge web-based tool suite, which aims to leverage AI models to enhance the workflow of different tasks of social and cultural science researchers.

**Tasks:** your tasks in this project are the following
- Getting to know the project, i.e., goals, architecture, frameworks, and technologies
- Implement various features as React components, e.g:
  - Core functionalities like project / user settings, timeline, annotation…
  - Multimodal (text & image) search interface
  - Interactive visualizations for information management (e.g. graphs)
  - Visual analytics with NLP (e.g. sentiment analysis, topic model, clustering …)
(Once you're comfortable with the project, we'll discuss what features you'd like to work on.)

**Requirements:**
- Fluency in English or German
- Experience with:
  - React (or similar)
  - Git
  - JavaScript (TypeScript is beneficial)
  - HTML & CSS
- Teamplayer

**Tech Stack:**
Frontend: React, TypeScript, MUI, React Router, React Query, Redux…
Backend: Python, FastAPI, PostgreSQL, Elasticsearch, spaCy, PyTorch, …

**Salary:** 16€ per hour
**Hours per month:** 40-60 hours
**Start date:** 01.01.23 or later

**Questions?** Come to my office F-430 or write a mail to tim.fischer@uni-hamburg.de
**Interested?** Please send a short application letter highlighting your previous experiences with web development to tim.fischer@uni-hamburg.de