EazyNLP: Text Mining Web App for Researchers

The EazyNLP web app is a text mining platform aimed at non-technical researchers in the social sciences who wish to take advantage of natural language processing (NLP) in the analysis of unstructured textual datasets.

Users interact with the EazyNLP web app via an intuitive and pleasing UI that they can access straight from their browser. By using point-and-click, non-technical users can seamlessly integrate EazyNLP into their research workflow by uploading datasets, conducting various NLP-based analyses, and exporting interesting findings.

Full-stack Developer (front-end and/or back-end focus)

Interdisciplinary Project (or Application Project)

Your tasks:

- Extend existing prototype of the web app with a focus on building a slick, lightweight UI enabling end-to-end user journeys for diverse ML/NLP analyses
- Research suitability of mainstream/best-in-class frameworks and tools
- Think like the end-user and strive for the best user experience
- Thoroughly document your concepts, designs and software code in English (in-code and/or as a separate document, as appropriate)

Your profile:

- Previous experience in full-stack web app development, especially with back-end code written in Python
- Understanding of how to integrate Python-based backend code with a typical front-end setup (e.g. JavaScript, HTML, CSS, React)
- Good understanding of software design and programming principles (modularity, clean code, thorough documentation)
- Some interest in NLP, ML, and/or data visualization may help
- Ability to work independently in an agile development setup (Scrum, Kanban) and willingness to learn new approaches quickly (including version control with Git and containerization with Docker)
- Enough proficiency in English to clearly document concepts and code

Next steps:

- Start: asap
- Email aishwarva.kakatkar@tum.de briefly saying why you are interested in this IDP and attach your up-to-date CV and transcript of records
- Optional: send a link to your Github showcasing relevant prior projects and/or share examples of previous UI design projects