Working Student Job

Frontend Development for Machine Learning Toolbox and Data Warehousing for the Analysis of Medical Cell Images

CellFace

CellFace aims to establish digital, holographic flow cytometry as a label-free platform technology for cellular diagnostics. We are an interdisciplinary project of TU Munich coordinated by the Chair for Biomedical Electronics and the Chair for Data Processing in cooperation with several departments of the University Hospital Klinikum rechts der Isar.

Project and Thesis Description

For the CellFace project we are looking for motivated people with experience in web development and databases to prepare and present new machine learning tools for users (without IT background).

Your task will be to work with our team of researchers and students to make a self-developed machine learning engine specialized in cell analysis usable through a web interface. Especially users from other disciplines have to be enabled by an intuitive user interface to successfully use the existing tools.

Task Description

- Planning and implementation of a frontend for a web application for machine learning and data warehousing in a medical context
- Development of a code base for an interactive website based on Vue.JS
- Connection to a Django backend (Django REST framework)
- Design of an ergonomic and responsive user interface
- Close collaboration with the ongoing research and final projects in the project

Requirements

- Very good knowledge of Vue.JS
- Experience with version management (Git)
- Good knowledge of Linux Team player skills and passion for research

Optional

- Experience with SQL databases
- Experience with Django

Our offerings

- Integration in an aspiring team of interdisciplinary researchers, engineers, and entrepreneurs.
- A unique environment for developing new IVD products with access to all benefits from the clinical, biomedical, and engineering domains at TranslaTUM.
- Unlimited access to newest information in the biotechnology industry as you will be working with multiple stakeholders that all are experts in their fields.

Further Information

- CellFace
- Go-Bio initial
- Software Campus

Contact CellFace
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