Project number: CS19

Maximum number of groups can accept: 1 group

Project Client: Switch Maven / Contract AI Development

Project Title: Project Contract AI

Project Description and Scope:

Contract AI is a capstone project that uses machine learning to make documents (such as employment agreements, loan agreements, insurance contracts) easier to read for everyday people. We categorise different document types and convert these into visualisations formats which are faster and easier for people to process information.

Our platform currently uses machine learning models to categorise various types of documents, to display information in a table format.

The scope of this project is twofold: (i) to help us to expand the types of documents that our models are able to review. For this purpose, we would like students to focus on expanding our models to categorise different types of tenancy agreements (although we are open for students to decide on a different type of document); (ii) to assist us to build a visualisation to display summary results of the document, rather than in a plain table.

Ultimately we see our project as having the potential to transform the way information is shared and processed in the world currently - helping people to transfer the same amount of information in much less time, that is able to be understood by a wider audience.

Expected outcomes/deliverables:

1. Assist us to expand our current model to categorise an additional contract/document type (we would suggest a tenancy agreement, for which we already have data, which students can use as a starting point).

2. Assist us with creating a visualisation format for data to be displayed after categorisation by our model (compared to current method of output, which is just a table). We already have some visualisation examples we would like to adopt, although we are happy to explore other visualisation styles students may have.

3. Provide general assistance for our development team with development tasks that arise during the course of the semester.

Specific required knowledge, skills, and/or technology:

Assumed/required knowledge and skills - it would be good if students have at least one of the following:

1. language abilities: Python, Java or another machine learning language

2. ability to code and program a web-based mobile application (no past experience is fine)

3. experience or an interest in data visualisation

Related general fields/disciplines:

Web Development;Software Development;Artificial Intelligence;NLP;Data visualisation;