



Company Background:

AI Arrive is an artificial intelligence company with the vision to create AI products that accelerate research and enhance our understanding of human disease. *ReadNet* is an AI solution that extracts out word networks from research documents and makes them into logical statements. Our mission is simply to democratize research journals and technical documents to make any technical document into a logical engine that can help individuals understand the contents or make decisions.

Team Size: 4-5 Students

Location: Remote, client/team meetings will be held with Zoom.

Project Summary: AI Arrive would like to develop a word network extraction system and Web App. The goal would be to identify antonyms within Wikipedia and the corresponding words that are connected to the antonyms. An example would be ‘away’ and ‘towards’ in relationship to ‘blood vessel’ which corresponds to ‘vein’ and ‘artery’. The method would first identify the antonyms ‘away’ and ‘towards’ and then identify common baseline words ‘blood vessel’ that are shared between the two antonyms. The method would extract these word relationships and corresponding terms ‘vein’ and ‘artery’ and store them in a Postgres database. A Django web app would then allow a user to browse through the extracted word networks and relate back to the text of the original source. All IP rights will be retained by AI Arrive.

Key Skills/Technologies: A background in NLP and deep learning would be beneficial for tackling this project. The team can seek guidance from the client as the client has deep expertise in AI and NLP.

Student Benefits:

- Freedom to develop a creative solution to the problem.
- Mentorship from the client on AI & NLP
- Future paid internship opportunities

- Build leadership skills by seeing the project through to completion.
- Opportunity to work on a project that is high impact and can make a difference.

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