

**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. AI Arrive partners with pharmaceutical clients to greatly accelerate R&D and drug development efforts by helping clients to make go/no-go decisions, prioritize drug targets, and uncover the mechanism of action (MoA) for drug targets. *MetaExtract* is a natural language processing (NLP) based project to extract important meta data from a journal article such as authors, institutions, title, year of publication, article volume and number, and page numbers. Although millions of biomedical journal articles are published each year tools to analyze and interpret those articles are in a state of infancy. *MetaExtract* can extract important meta information for any research article.

Team Size: 4-5 Students

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

Project Summary: AI Arrive would like to develop a beta *MetaExtract* solution using biomedical journal articles. The end goal would be to provide a summary output that includes, author, author information, title of article, journal and journal article information, and date of publication. The client will provide a set of biomedical journal articles. The first step would be to create name entity classification and determine author name. The next step would be to extract likely title. The next step would be to create regex to extract date of publication. The next step would be to externally validate information is correct by creating an api call to pubmed querying with hypothesized author, title and publication fields. The final step would be to return meta information and store in graph database. All IP rights will be retained by AI Arrive.

Key Skills/Technologies: A background in developing ETL pipelines, NLP, working with graph databases Neo4j would be beneficial for tackling this project. The team can seek guidance from the client.

Student Benefits:

- Freedom to develop a creative solution to the problem.
- 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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