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. *DiseaseScribe* enables researchers to identify patient data that pertains to their drug's mechanism of action.

Team Size: 4-5 Students

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

Project Summary: AI Arrive would like to save and retrieve PubMed retrieved literature searches/parameters, RAG knowledge bases and chat based conversations using AWS Amplify/Cognito (frontend) for authentication and an AWS serverless architecture (backend). The core LLM RAG/biomedical search application was developed by the prior team (Fall 2024). The scope is to migrate those algorithms to an AWS serverless architecture using API Gateway, Lambda function, and AWS Amplify/Cognito for UX/UI and user authentication. The LLM RAG application allows researchers to perform targeted literature searches and chat conversations to better understand the mechanism of action of their drug and interactions between patient specific networks.

Key Skills/Technologies: A background in AWS, software development, fullstack development and LLM/RAG would be beneficial for 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

Contact Information:
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