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 add the functionality of bringing in open-source datasets through GEO (Gene Expression Omnibus) to build patient specific gene network algorithms that the prior team (Summer 2025) worked on and migrated those algorithms to an AWS serverless architecture. This project will be building from the prior automation, feature enhancements, and UX/UI Vue app the prior team developed. The patient specific networks are a set of algorithms that provide a gene/protein network of a responder patient and non-responder patients for RNA-Seq datasets. The patient specific gene network will be saved and retrieved in a researcher's profile with an app that provides authorization. The new functionality will be that a researcher can explore and analyze additional open-source datasets and generate insightful patient specific gene networks.

Key Skills/Technologies: A background in AWS, software development, fullstack development and network analysis 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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