RAIN – Radiology Artificial Intelligence Network

**Contact Name:** Craig Snell

**Contact Email:** craig\_snell@hotmail.com

**Contact Phone number:** 204-470-4612

**Company Name:** RAIN, Radiology Artificial Intelligence Network

**Company Overview:** RAIN process’s diagnostic imagining requisitions from Doctor’s offices.

**Project Description:** RAIN is a network that sorts, analyzes, and distributes diagnostic imaging requisitions. Automating the workflow from requesting a diagnostic imaging exam to providing the service.

**Background**

Radiology AI Network (RAIN) is a team of healthcare professionals looking to automate the workflow that involves processing requests from Doctors. Building a database, and creating logic with supervised AI technology is our core goal.

We are looking for students who are motivated to innovate a rather outdated processing system. The software solution will be capable of processing clinical data received by referring physicians, and publishing documents with recommendations to the receiving diagnostic imaging modality. Students familiar with health care terminology or have a background in diagnostic imaging would be extremely beneficial.

Development of the backend involves creating a standard logic (with AI) for unique pathology’s so that a standard of care can be maintained and practiced. We have provided a keyword-based point system for protocol selection that needs to be implemented within the software. We want be able to take the information given from the physicians, process it through our logic, and proceed with the appropriate exam.

We have many applications that need to be developed, including GPS tracking for patients, in-patient scheduler, and smart requisitions with automated feedback. We are focusing on first developing a testable prototype, and adding new features incrementally

**Tasks**

**This project aims to:** build AI logic to predict outcomes from the request submitted from theDoctors office

**This solution is:** Create accurate logic to properly direct the outcome with over %95 accuracy

**Preferable platform:** We currently have the program built using REACT, DJANGO, PYTHON, and MONGO DB

**Some specific tasks include:**

1. . Create AI logic to make the program more accurate
2. . Create an interface where we can change/manage the logic to be more accurate for future inefficiencies

**Resources available to the students:** Currently there is 4 of us that can be of help and available if any questions arise.

**Preferable skills required:** Skills with developing code and familiarity with REACT, PYTHON, MONGO DB, and DJANGO