
JIMENG SUN
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Required Skills:

Mobile App, Web Development,
Stand Alone App Development,
Responsive Web Design, Human
Centered Design,
Workflow/Process Optimization,
Project Management,
Communications

Preferred Team Communications:

WEBEX, Skype or Conference call

Data Sources:

MIT's MIMIC-III data (preferred);
Georgia Tech's synthetic data or
CMS DE-SynPUF synthetic data will
be sufficient for the project.

Other Items:

Project has timezone flexibility.
Mentors and students will
determine a good time for virtual
meeting

CLINICAL PREDICTIVE MODEL FOR EARLY DETECTION OF MORTALITY USING ELECTRONIC HEALTH RECORDS

Develop a FHIR app that uses Electronic Health Records (EHRs) to predict if a patient will pass away in the future.

PROJECT OBJECTIVES

Determine a use case for a FHIR app that uses EHRs for healthcare predictions.

Develop a FHIR app that applies to a use case for a healthcare outcome (i.e. predict if a patient will pass away in the future using EHRs).

SUCCESSFUL PROJECT

An intuitive FHIR app that uses EHRs to predict a healthcare outcome (i.e. predict if a patient will pass away in the future using EHR)

(Optional) Run machine learning algorithms like deep learning to build a model for a healthcare prediction and wrap in an API

Intellectual Property: Project involves a government agency so the resulting project is made available to the public. Students do not own IP. Students will be recognized as contributors