

SHP Student Interns for Research and Scholarly Activities Application of Project Proposal Form

Instructions:

Please fill out the form and return via email to Nipa Sahasrabuddhe (ns1115@shp.rutgers.edu) by March 31, 2023. Please fill each box to the right of each required field. If you are sending attachments, please ensure your contact information is added to all your forms.

Faculty Contact Information:

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Date submitted:	3-30-23
Faculty Name:	Rahul Mittal, Shankar Srinivasan, Jim Brown and James Lee
Department/Program:	Health Informatics
Telephone number:	732-235-6484
E-mail:	Rm1703@shp.rutgers.edu

ChatGPT in Health Education and Practice

Project Detail:

characters max)	ChatGP1 in Health Education and Practice
Hypothesis:	Natural Language Processing tools like ChatGPT and the related DocsGPT are effective in the development and implementation of health educational materials and systems
Description: (Include design, methodology, data collection, techniques, data analysis to be employed, evaluation and interpretation methodology for research component)	ChatGPT is a Natural Language Processing (NLP) based Artificial Intelligence (AI) tool which has gained a lot of attention and research of late due to its potential capabilities and uses in various sectors including academia and clinical practice. With the current version of ChatGPT (GPT-4) its capability has increased to be able to process up to 25,000 words as inputs at a time and with a possibility to process images too very soon. DocsGPT is a variation on ChatGPT (with a library of clinical text prompts) which works more like a Chatbot and with promising uses in

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	clinical practice and education.				
	 The project involves the following: Conduct a comprehensive literature review of the current uses of ChatGPT and DocsGPT in various sectors but focusing more on health education and practice. Develop course materials using ChatGPT for one or two example courses as determined by the faculty investigators. Develop a Clinical Decision Support System using DocsGPT for a predetermined clinical diagnoses or procedure use. Perform comparative analyses of the above with those generated by non ChatGPT means. Present and/or publish the findings at a conference and/or a peer-reviewed journal. 				
Specific Student Responsibilities:	1.Peforming comprehensive literature review of both peer-reviewed and published as also white papers and such in the use of ChatGPT in various sectors including healthcare 2. Install and familiarize oneself with the use of ChatGPT and DocsGPT 3. Help faculty investigators to identify and choose appropriate course(s) and clinical diagnosis/procedure for the use of the project 4. Prepare a project report detailing all of the above as also prepare a Poster for Research Day and a manuscript as per an identified journal's requirements. This project requires the student intern to be proficient in Health IT and preferably with AI and/or analytics				
Start / end date of project:	June 6, 2023 – August 15, 2023				

Educational:

WHAT OTHER EDUCATIONAL	Required ChatGPT Software will be made available to the student for developing the above.
OPPORTUNITIES ARE AVAILABLE TO STUDENTS? (e.g., journal club, seminars, clinic, rounds)	Research material and other necessary reference/papers will also be made available to the student
Scrimars, chine, rounds)	
WHERE DO YOU PLAN TO	SHP Research Day Poster presentation and manuscript submissions to peer-reviewed journals

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PRESENT OR PUBLISH THE FINDINGS WITH THE STUDENT? (e.g., national or state meetings, newsletter or journal, SHP poster day)						
CHECK ALL APPROPRIATE INFORMATION.	E BOXES BEL	OW AND PROVI	DE REQUES	STED		
This project is:	laboratory	☐ behavioral	survey	⊠ educational		
Other: please specify						
☐ This project involves the use of human subjects (including chart review, retrospective studies and questionnaires).						
Pending Approved IRB Protocol Number						
IRB approval must be obtained by June 2023						
Signature of Department Cha	iir	3/31/2 —	23 Date			

OR-For internal use

Form: (1)
Reviewed date: ___4/4/23_

Date processed on website:

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