

University of Westminster University Research Ethics Committee

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Application for Research Ethics

PART A

Section 1 – PROJECT AND APPLICANT DETAILS				
1.1 Project Title: Book Recommendation Sy	stem With Senti	ment Analysis		
1.2 Applicant Details				
Name: S.C Fernando	University Email Address:			
Contact Address, 76.2/2 Iombuggemuelle	senesh.201839	93@iit.ac.lk ımber: 076 475 23	222	
Contact Address: 76 2/2 Jambugasmualla Rd, Nugegoda	relephone Nu	imber: 076 475 23	52Z	
Faculty: Informatics Institute of Technology				
Please check the relevant box:	Please check the relevant box:			
Undergraduate ⊠ Postgraduate □	MPhil/Ph	D Student □	Staff	
I confirm I have read the University's Code Governing the Ethical Conduct of Research		YES 🖂	NO 🗌	
1.3 Supervisor/Dean of Faculty/Faculty Research Director details				
Please note that all applicants with a supervisor(s) must ensure that the supervisor signs the declaration at the bottom of this page if completing Part A only or in Section 10.3 if completing Part B				
All staff must ensure that their Dean of Faculty, or Faculty Research Director (or nominee), as appropriate, signs the declaration at the bottom of this page if completing Part A only or in Section 10.3 if completing Part B				
	University Email Address:			
Name:				
Name: Ms. Vayangi Ganepola	University Em vayangi.20175			

PART A (Continued)

Section 2 - Project Details

2.1 Please provide a description of the background with references to relevant literature (250 words maximum):

In the age where the internet is the leading source of information recommendation systems are very common to be seen because of the abundance of data that is available. In this Research the author researches the currently available book recommendation systems and tries to find a improvement that can be done to significantly improve the performance of the system.

This document will discuss the identified problem, the significance of the research idea, the steps taken to approach the research, a review of existing work and the milestones and date of deliveries of the project.

2.2. Please provide a brief description and the aims of your study (250 words maximum):

This Research aims to design, develop, test and evaluate a system that recommends books by taking the users past activity on social media using sentiment analysis to find the users mood and giving recommendations of books powered by a machine learning model.

This research aims to design a system to recommend books to users with an up-to-date sentiment analysis model to find the users mood this information will be extracted from the users past social media activity. The recommendation system will be done using a machine learning recommendation algorithm which would recommend books from a premade library of books.

The Proof of concept for this research will be done by involving real users extracting their mood from their past activity and manually evaluating if the book recommendation they got is of their liking, this will help us evaluate if the system if performing up to expectations.

2.3. Please outline the design and methodology of your study (include details of the selection and recruitment of participants (if any) and details of any invasive (e.g. blood samples, inhalation/ingestion of food and/or non-food products (in abnormally higher or lower levels than normal or a different form), or intrusive (e.g. questionnaires, focus groups, interviews, etc.) procedures [attach extra information as necessary] (400 words maximum in total):

The one-person **Agile** SDLC model will be used in this project and OODA (object-oriented analysis and design) will be used as the design methodology.

Data gathering will be done by **online** questionaries and surveys which will collect data with the consent and free-will of the participants.

2.4. Timescales

Start Date (DD/MM/YY): 20/09/2022

Estimated duration of work: 8 months

Section 3 - RISK OF HARM NOTE 1: Where indicated below applicants should check if the research will require ethical approval from a National Research Ethics Committee via the Integrated Research Application System (IRAS) - nres.gueries@nhs.net.- http://www.hra-decisiontools.org.uk/ethics/ NOTE 2: The University of Westminster holds a Human Tissue Authority Licence - This licence is specifically for tissue stored at 115 New Cavendish Street in accordance with the terms of the licence - Advice must be obtained from the University Human Tissue Designated Individual (N.Presneau@westminster.ac.uk) RISK OF HARM (to self, colleagues, participants, environment or animals) Yes N/A Will any pain or more than mild discomfort result from the study? \boxtimes Could the study induce any psychological stress or anxiety or cause harm or \boxtimes negative consequences beyond the risks encountered in normal life? Will the study involve prolonged or repetitive physical or psychological testing of \boxtimes human participants that may put someone at risk, e.g. use of treadmill? Will the study involve raising sensitive topics (e.g. sexual activity, drug use, X revelation of medical history, bereavement, illegal activities, etc.)? Does your work involve any "relevant material" containing human cells (e.g. \boxtimes blood, urine, saliva, body tissues but NOT established cell-lines) from living or deceased persons (Such work must take account of the Human Tissue Act)? -See Note 1 and 2 above. Will DNA samples be taken from human participants (Such work must take \boxtimes account of the Human Tissue Act)? - See Note 1 and 2 above. Does your study raise any issues of personal safety for you or other researchers \boxtimes or participants involved in the project (Especially relevant if taking place outside working hours or off University premises)? Does your study involve deliberately misleading the participants (e.g. deception, \boxtimes covert observation)? Does your work involve administration of a food or non-food substance of a \boxtimes different type from or in abnormally higher or lower amounts than normal or one that is known to cause allergic reaction(s) or potential psychological stress? Does your study involve issues relating to personal and/or sensitive data? \boxtimes PARTICIPANTS (and/or their records/associated data) Yes No N/A Does your work involve any of the following: Human participants in a health and/or social care setting (e.g. patients, those \boxtimes attending day centres, community care, rehabilitation centres, etc., including in the NHS, other public, private and/or voluntary sectors)? - See Note 1 above. Human participants who may be deemed vulnerable (e.g. children, people in \boxtimes poverty and/or with physiological or psychological impairments, persons attending rehabilitation centres, persons in easily identifiable positions that could be subject to victimisation, etc.)? 13 \boxtimes Expectant or new mothers? Refugees/Asylum seekers? \boxtimes 14 15 Minors (under the age of 18 years old)? XParticipants in custody (e.g. prisoners or arrestees)? - See Note 1 above. 16 \boxtimes Participants with impaired mental capacity (e.g. severe mental illness, brain \boxtimes damage, sectioned under Mental Health Act, lowered or reduced sense of consciousness)? - See Note 1 above. 18 Animals (or animal tissue). \boxtimes **INFORMATION TO PARTICIPANTS** Yes No N/A Will you provide participants with a Participant Information Sheet prior to X obtaining informed consent which can be taken away by the participant? 20 Will you describe the procedures to participants in advance, so that they are \boxtimes informed about what to expect? Will you obtain informed consent for participation (normally written)? OR in the \boxtimes case of using personal data previously acquired was consent given for the reuse of the data for other research purposes? Will you tell participants that they may withdraw from the research at any time X and for any reason without any impact on their care, service provision etc.? 23 Will you give participants the option of omitting questions they do not want to \boxtimes answer? Will you tell participants that their data will be treated as confidential and that, if 24 \boxtimes published, it will not be identifiable as theirs? Will you offer feedback to participants at the end of their participation, upon \boxtimes request (e.g. give them a brief explanation of the study and its outcomes)? 26 Has external funding or collaboration been applied for/received, which requires \boxtimes

institutional	ethical	consideration	or	approval?
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Useful links:

- http://www.screc.org.uk/ Social Care Research Ethics Committee
- http://www.hra-decisiontools.org.uk/ethics/ Human Research Authority decision tool to identify if research needs National Research Ethics Committee approval
- http://www.nres.nhs.uk/applications/guidance/governance-and-directives/?entryid62=131341 –
 Governance Arrangements for Research Ethics Committees
- http://www.nres.nhs.uk/EasySiteWeb/GatewayLink.aspx?alld=134016 NRES algorithm "Does my project require review by a Research Ethics Committee"?
- http://www.hta.gov.uk/policiesandcodesofpractice/codesofpractice.cfm Human Tissue Authority Code of Practice
- http://www.hta.gov.uk Human Tissue Authority website
- http://www.rsclearn.mrc.ac.uk/MRC_HumanTissueAct/player.html Medical Research Council online training course for Human Tissue Act.

What to do next:

- If you have answered NO to questions 1-18 (inclusive) and YES to questions 19-25 (inclusive), you do not need to complete the Full Research Ethics Approval Form (Part B). Please keep this form for your records, and do not submit to Faculty Research Ethics Committee (FREC) unless you require ethical consideration of your study, regardless of ethical implications, by an external body (question 26 has been answered YES). A list of Faculty contacts is below.
- If you have answered YES to any of the questions 1-18 (inclusive) or NO to any of the questions 19-25 the Full Research Ethics Approval Form (Part B) MUST be submitted including Cover Sheet, Part A and Part B of the application form plus any required supplementary documents to the Secretary of the relevant Faculty Research Ethics Committee (FREC). A list of Faculty contacts is below.
- If you are applying for external Ethical Approval, please send a *copy* of the Conditions/Approvals letters to the **University Research Ethics Committee** (UREC) Secretary (this may include the original ethical application(s)). Where the external ethics committee/body has equal standing or primary jurisdiction, e.g. another University Research Ethics Committee or a National Research Ethics Committee, any approval will normally be received and noted by the University of Westminster Research Ethics Committee and further consideration may not be required. Where the external committee does not have equal or higher standing than the University Committee then the full ethical approval process at the university may still be required. Additional institutional compliance issues may need consideration by UREC.
- All Applications (dated, signed and authorised) and supplementary information or External Approvals should be sent to the University Research Ethics Committee (UREC) Secretary in electronic format with a version number, document name and date and the Principal Investigator (or Undergraduate/Postgraduate Taught Student) name. On receipt your application will be issued a unique reference number
- All new Applications should be submitted to a Research Ethics Committee (FREC or UREC)
 Secretary a minimum of 10 working days in advance of the Committee meeting date (earlier
 submission is recommended so that applications can be pre-vetted and obvious issues
 addressed before the application is considered by the Committee).

Contact details:

<u>Faculty</u>	<u>Chair</u>	<u>Secretary</u>
Architecture and the Built Environment	Professor Nick Bailey	Colette Davis
Media Arts and Design	Dr Anthony Mcnicholas	Fauzia Ahmad

<u>Faculty</u>	Chair	<u>Secretary</u>
Science and Technology	Dr John Colwell	Mandy Walton
Science and Technology Psychology Department Sub Committee	Dr Laura Boubert	TBC
Social Sciences and Humanity	Professor Marco Roscini	Victoria Grey- Edwards
Westminster Business School	Petar Sudar	Haydn Worley
University Research Ethics Committee	Professor Graham Megson	Huzma Kelly

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