Research Topic, Research Supervisor, Research Integrity, Research Strategy

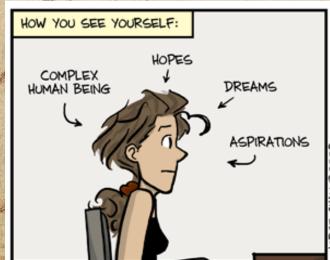
"The object of research is to extend human knowledge beyond what is already known.

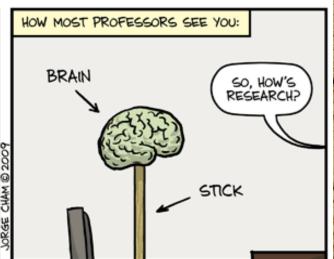
An individual's knowledge enters the domain of science only after it is presented to others in such a fashion that they can independently judge its validity"

-(NAP, "On Being a Scientist" 1995)

http://vivek.athabascau.ca

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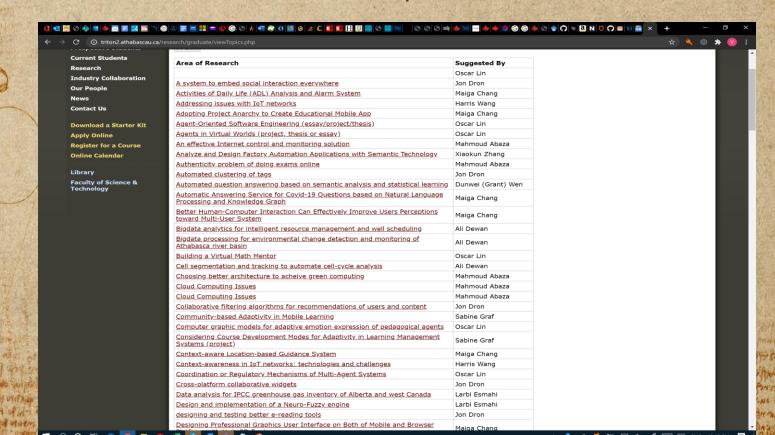




Starting you Research

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- * How to find a research topic and a supervisor?
 - https://triton2.athabascau.ca/research/graduate/viewTopics.php
- * Research Plan in Comp695 Research Methods



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- * http://fgs.athabascau.ca/docs/Intellectual Property.pdf offers an excellent introduction to IP, copyright, patent ...
 - Administrative and Operational Activities AU
 - Teaching and Learning Responsibilities AU
 - Academic Research Activities Creator & AU
 - External Research Activities Creator
- http://ous.athabascau.ca/policy/#POI points to AU's IP policy
 - Discuss IP expectations at the beginning of graduate student/supervisor relationship
 - Draft an agreement and revisit when required http://www.cags.ca/documents/publications/best_p ractices/Letterofunderstanding.FINALOCT2012.En g.doc

Authorship

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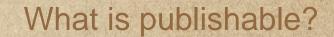
- Policies at most scientific journals state that a person should be listed as the author of a paper only if that person made a direct and substantial intellectual contribution to the design of the research, the interpretation of the data, or the drafting of the paper.
- The acknowledgments section can be used to thank those who indirectly contributed to the work.

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 Papers that report "original and significant" findings that are likely to be of interest to a broad spectrum of its readers

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 Papers that are well organized and well written, with clear statements regarding how the findings relate to and advance the understanding/development of the subject

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Research Misconduct

Research misconduct means Fabrication, Falsification, or Plagiarism in proposing, performing, or reviewing research, or in reporting research results.

- (a) Fabrication is making up data or results and recording or reporting them.
- (b) Falsification is manipulating research materials, equipment, or processes, or changing or omitting data or results such that the research is not accurately represented in the research record.
- (c) <u>Plagiarism</u> is the appropriation of another person's ideas, processes, results, or words without giving appropriate credit. <u>Self-Plagiarism</u>
- (d) Research misconduct does not include honest error or differences of opinion.



Data Ownership



It is your fundamental obligation to create and maintain an accurate, accessible, and permanent record of data. Funding agencies now require you to store the data for longer periods.

(ה קשול ביני לחיות לפלקי היים ליותר בינה בינה

New national Research Data Management procedures and policies are upcoming (e.g., NDRIO)

Record and Share sufficient detail for others to check and replicate the work. Open Data? Open Science? Open Research? https://osf.io/fxvru/

Who owns research data?

(From ORI http://ori.dhhs.gov/education/products/RCR intro/c02/0c2.html)



Frontiers In Education 2020 - Explainable Automated Essay Scoring: Deep Learning Really Has Pedagogical Value

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Contributors: Vivekanandan Suresh Kumar, David Boulanger

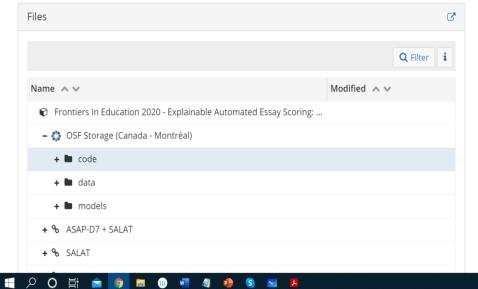
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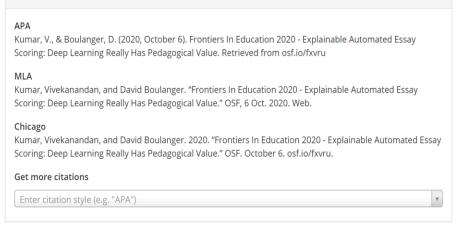
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Category: Project

Description: Automated essay scoring (AES) is a compelling topic in Learning Analytics for the primary reason that recent advances in AI find it as a good testbed to explore artificial supplementation of human creativity. However, a vast swath of research tackles AES only holistically; few have even developed AES models at the rubric level, the very first layer of explanation underlying the prediction of holistic scores. Consequently, the AES black box has remained impenetrable. Although several algorithms from Explainable Artificial Intelligence have recently been published, no research has yet investigated the role that these explanation models can play in: (a) discovering the decision-making process that drives AES, (b) fine-tuning predictive models to improve generalizability and interpretability, and (c) providing personalized, formative, and fine-grained feedback to students during the writing process. Building on previous studies where models were trained to predict both the holistic and rubric scores of essays, using the Automated Student Assessment Prize's essay datasets, this study focuses on predicting the quality of the writing style of Grade-7 essays and exposes the decision processes that lead to these predictions. In doing so, it evaluates the impact of deep learning (multi-layer perceptron neural networks) on the performance of AES. It has been found that the effect of deep learning can be best viewed when assessing the trustworthiness of explanation models. As more hidden layers were added to the neural network, the descriptive accuracy increased by about 10%. This study shows that faster (up to three orders of magnitude) SHAP implementations are as accurate as the slower model-agnostic one. It leverages the state-of-the-art in natural language processing, applying feature selection on a pool of 1592 linguistic indices that measure aspects of text cohesion, lexical diversity, lexical sophistication, and syntactic sophistication and complexity. In addition to the list of most globally important

Citation





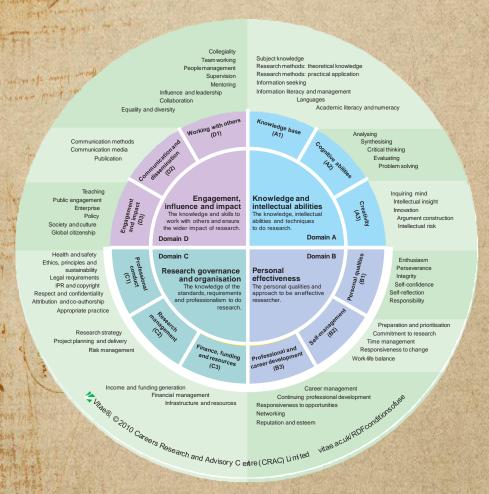
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Be on the edge of the research frontier

Be thorough with your research methods

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