

ROHAN SAHA

PhD Student

Department of Computing Science

University of Alberta

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Research Interests

Deep Learning, Language Models

Education

University of Alberta

PhD - Computing Science. GPA: 4.0/4.0

Curriculum Learning for language models.

Supervisor: Alona Fyshe

2022-Present

Edmonton Canada

University of Alberta

MSc - Computing Science. GPA:3.5/4.0

Using language models to understand how the brain processes language.

Supervisor: Alona Fyshe

2019-2021

Edmonton, Canada

Kalinga Institute of Industrial Technology

Bachelor of Technology, Computer Science and Engineering. GPA: 9.48/10.0

2015-2019

Bhubaneswar, India

Employment

• Natural Resources Canada, Government of Canada 2023

NLP Research Intern - Led a successful project to upgrade the language model based recommendation engine for suggesting similar records on geo.ca Supervisor: Xinli Cai Bo Lu.

• Alberta Machine Intelligence Institute (AMII) 2023

AI Career Accelerator Program Participant (Consulting) - Course content contributor for multiple modules for the ML training course offered by AMII. Supervisor: André dos Santos.

• Robert Bosch Engineering and Business Solutions 2019

Software Engineering Intern - Teamed with 4 interns to design and develop a mixed reality proof-of-concept application using Microsoft HoloLens to visualize levels of ambient radiation. Supervisor: Ajay Devulapalli.

• Endurance International Group (Newfold Digital) 2018

Software Engineering Intern - Worked with a team of 2 people to upgrade the primary payments collection system to run on the latest version of Ruby on Rails. Supervisor: Gopal Rohra, Adesh Kala.

Research

* = Equal Contribution

- Rohan Saha*, Jennifer Campbell*, Janet F. Werker, and Alona Fyshe. Insights into early word comprehension: Tracking the neural representations of word semantics in infants, September 2023 (Under Review).Preprint.
- Arif Shahriar*, Rohan Saha*, and Denilson Barbosa. 2023. Relational Extraction on Wikipedia Tables Using Convolutional and Memory Networks. July 11, 2023(Under Review)Preprint
- Rohan Saha, Cassidy Pirlot. Analysis of Evolutionary Program Synthesis for Card Games. January 2021 Link
- Rohan Saha. Homonym Identification using BERT - Using a Clustering Approach. April 2020 Link
- Rohan Saha. Comparing Classification Models on Kepler Data. Jan 2021 Link

Teaching

F = Fall semester, W = Winter semester

- **Teaching Assistant - University of Alberta** W2023
CMPUT-302: Introduction to Human Computer Interaction - Assisted the facilitation of the course to teach and design principles surrounding educational technology applications.
- **Teaching Assistant - University of Alberta** F2020
PSYCO-576: Machine Learning for Psychology - Designed 10+ hours of jupyter notebooks assignments to teach applications of machine learning to neuroscience data.
- **Teaching Assistant - University of Alberta** F2019,W2020,W2021
CMPUT-301: Software Engineering - Involved in teaching hands-on labs mentoring teams of undergraduate students for building an android mobile application. Technologies covered: Android, Java, Firestore NoSQL, Unit / Intent testing, Git.

Talks

- **Google ML Study Jam Series:** Hands on walkthrough of a Kaggle Learn course. I gave a talk on how one can train their first machine learning model in python and talked about other foundational ML topics (May 2023). Video.
- **Tech Talk - Linear Models in Machine Learning:** Lead speaker for a session on Linear Models at the Machine Learning Bootcamp organized by Google Developers Group Edmonton and Calgary Data Science Academy (October 2020) Video.
- **Parallels between computer and human representations of meaning (with Dr. Alona Fyshe):** How machine learning can be used with brain-imaging data to understand the processing of information in the human brain. (September 2020) Video.

Awards

Name	Year
KIIT Merit Scholarship (INR 30000)	2019

Service

Reviewing

Association of Computational Linguistics (ACL), Neural Information Processing Systems (NeurIPS)

Department Service

- Computing Science Graduate Student’s Association - Vice President 2021-2022
- Computing Science Graduate Student’s Association - Academic Director 2020-2021

Other

- Google Developers Groups Cloud Edmonton - Executive 2021-Present