

Koustuv Sinha

CONTACT INFORMATION

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RESEARCH INTERESTS

NLP: Generative Language Models and Dialog Systems

EDUCATION

McGill University, Montreal, QC, Canada

MSc Thesis, School of Computer Science, September 2016 - present

- GPA : 3.92/4
- Courses : Applied Machine Learning (Comp 551, Fall 16), Network Science Seminar (Comp 767, Fall 16), Machine Learning (Comp 652, Winter 17), Cultural Analytics (LLCU 614, Winter 17), Neural Networks and NLP (LING 751, Fall 17), Reinforcement Learning (Comp 767, Winter 18)

Institute of Engineering & Management, West Bengal, India

B.Tech., Department of Computer Science & Engineering, August 2010 - May 2014
Supervised by Prof Ee-kian Wong

- Degree Grade Point Average (DGPA) : 9.16 / 10
- Senior Project: *MongoLive - Browser Based utility library for Offline Synchronization with MongoDB*
- Key Courses: Algorithms & Design, Natural Languages & Processing, Formal Languages & Automata Theory, Networking & Communication, Database Management Systems, Computer Architecture & Organization, Operating Systems, Discrete Mathematics & Probability

Jodhpur Park Boys School, West Bengal, India

Higher Secondary, July 2008 - May 2010

- Percentage Obtained : 84.6%
- Key Courses : Physics, Chemistry, Maths, Statistics

Ramakrishna Mission Vidyalaya, Narendrapur, West Bengal, India

Secondary, May 2002 - April 2008

- Percentage Obtained : 91.1%
- Key Courses : General Science & Computer Applications

RESEARCH EXPERIENCE

McGill University, Montreal, QC, Canada

Research Associate, Dialog Group, *RL Lab*
Supervised by Dr. Joelle Pineau

June 2017 - present

Research Associate, *Network Dynamics Lab*
Supervised by Dr. Derek Ruths and collaboration
with David Jurgens

September 2016 - present

Research Associate, *txtLab - NovelTM Project*
Supervised by Dr. Andrew Piper

September 2016 - August 2017

Indian Institute of Technology, Kanpur, India

Senior Project Associate

September 2015 - March 2016

Department of Computer Science & Engineering

Supervised by Dr. Arnab Bhattacharya & Dr. Koumudi Patil

- Google Transparency - IIT Kanpur Initiative supported by Google to create a mobile platform in which users can interact with Government regarding public projects
- Lesen - Android Application text reader for the blind, capable of reading aloud text from images, signages and posters. 2nd prize winner in Goldman Sachs Able Solutions competition

TEACHING EXPERIENCE

McGill University, Montreal, QC, Canada

Teaching Assistant, COMP 551 Applied Machine Learning **Fall 2017, Winter 2018**

Prof. Dr. Joelle Pineau, Dr Herke Van Hoof, Sarath Chandar, Ryan Lowe

Teaching Assistant, COMP 102B Computers & Computing **Winter 2017**
Prof. Dr. Derek Ruths

Teaching Assistant, COMP 189 Computers & Society **Fall 2016**
Prof. Dr. Derek Ruths

PROFESSIONAL EXPERIENCE

Nomura Research Institute Financial Technologies India Pvt. Ltd., Kolkata, West Bengal, India

Associate Software Engineer

August 2014 - August 2015

- Developer Role : Front End Engineer
- Projects Developed :
 - R & D project involving implementation and feasibility study of UX technology shift from Flash based application to modern HTML5 & AngularJS
 - UX Upgradation of company product *Finch*, framework for financial application development, from old design to new responsive Mobile Friendly Material design

INVITED TALKS

- *On the unreasonable complexity of detecting social interactions in literature*, Digital Humanities (DH) 2017, July'17, McGill University, Montreal

PUBLICATIONS

- Koustuv Sinha, Nicolas Angelard-Gontier, Peter Henderson, Prasanna Parthasarathy, Mike Noseworthy; *Reasoning & Learning Lab Chatbot*, NIPS 2017 Conversational Intelligence Challenge Finalist
- Peter Henderson, Koustuv Sinha, Nicolas Angelard-Gontier, Nan Rosemary Ke, Genevieve Fried, Ryan Lowe, Joelle Pineau; *Ethical Challenges in Data-Driven Dialogue Systems*, AAAI/ACM conference on Ethics and Safety, 2017

SKILLS

Programming Languages

- Python, C, C++, C#.NET, JAVA, JavaScript, R, Octave

Machine Learning libraries

- PyTorch, Tensorflow, Scikit

Web Technologies

- HTML, CSS, PHP, J2EE, Node.js, AngularJS, ReactJS, jQuery

Databases

- SQL : MySQL, Oracle 10G
- NoSQL : MongoDB

ACTIVITIES

- Student Volunteer, 11th International Conference on Web and Social Media, 2017, Montreal
- Hosted **Nodeschool**'s inaugural IEM Kolkata Chapter in Institute of Engineering & Management, Kolkata, which is an international open sourced volunteer based JavaScript community, committed to teach JS in a hands-on coding workshop format.
- Taught and Mentored young middle school students of Ramakrishna Mission Vidyalaya, Narendrapur to introduce them to the world of programming in C and databases in MySQL, as a part of Alumni Association Initiative.

AWARDS & ACHIEVEMENTS

- **Pierre Arbour Foundation Scholarship** for Master level study in Computer Science & Engineering, 2017-18
- **Sridharacharya Prize** for Computer Excellency awarded due to consistent Highest Marks in Computer Science at Ramakrishna Mission Vidyalaya, Narendrapur, 2007

REFERENCES

Available on request.

MORE INFORMATION

LinkedIn Profile
<https://in.linkedin.com/in/koustuvsinha>.

Github Profile
<https://github.com/koustuvsinha>.