

DIPANJAN DUTTA

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I am currently a master's student at McGill University. My research interests are:

- Applications of Machine Learning and Artificial Intelligence in computer games, healthcare and cyber security.
- Pattern Recognition.
- Application of ML algorithms in creating social impact.

EDUCATION

MSc	McGill University, Computer Science Thesis: Floating point optimization of neural networks during training Advisor: Clark Verbrugge Ongoing Current CGPA: 3.4/4	Expected August 2019
B. Tech	Maulana Abul Kalam Azad University of Technology, Computer Science and Engineering CGPA: 8.63/10	June 2015

RESEARCH EXPERIENCE

McGill University. , Montreal, Canada Master's student , Advisor: Prof. Clark Verbrugge	2018 - Present
<ul style="list-style-type: none">• JIT-like framework for adaptive reduction of precision of weights during training of neural networks• Using stochastic bandits to learn the distribution of reduction of precision of each weight	
Infosys Ltd. , Bengaluru, India Systems Engineer , Manager: Suman Roy	2016 to 2017
<ul style="list-style-type: none">• Predictive analysis of QoS parameters like resolution time of IT maintenance tickets from ticket summary feature space using Fuzzy C-means clustering and Linear Regression	
Infosys Ltd. , Bengaluru, India Systems Engineer , Manager: Kiran Kumar Kaipa	2015 to 2016
<ul style="list-style-type: none">• Development of a platform aimed at providing predictive analysis on large datasets using Hadoop MapReduce and R	

Infosys Ltd., Bengaluru, India

2015

Systems Engineer, Manager: Pramod Prakash Panda

- Development of a model to evaluate and analyze performance of students in campus placement exams across the country

TEACHING EXPERIENCE

Teaching Assistant, *McGill University*
COMP521: Modern Computer Games

Fall 2018

Teaching Assistant, *McGill University*
COMP360: Algorithm Design

Winter 2018

Teaching Assistant, *McGill University*
COMP251: Algorithms and Data Structures

Winter 2018

PUBLICATIONS

Conference Papers

(Peer-Reviewed)

Roy, S., Muni, D. P., Bhattacharya, A., Dutta, D., & Budhiraja, N. Fuzzy QoS modeling of IT maintenance tickets. *2017 IEEE International Conference on Web Services (ICWS)*, 2017, pp. 476-483.

Roy, S., Dutta, D., Muni, D. P. & Bhattacharya, A. Fuzzy Prediction of QoS for IT maintenance tickets. *Proceedings of the Fourth ACM IKDD Conferences on Data Sciences*. 2017.

Posters

Campbell, J., Dutta, D., Verbrugge, C. Towards an adaptive fine-grained framework to optimize neural networks. *NSERC-CRSNG COmputing Hardware for Emerging Intelligent Sensing Applications (COHESA) Network AGM*. 2018.

PROFESSIONAL TRAINING

Infosys Ltd., Systems Engineer, Presales Analytics, March 2017-June 2017

- Created a prototype for a retail client to predict the confidence of return of a purchase order

Infosys Ltd., Systems Engineer, Corporate Technologies, June 2016-March 2017

- Development of a model to predict resolution time of IT maintenance tickets using Fuzzy C-Means clustering on summary text feature space of tickets
- The work was accepted at ICWS 2017

Infosys Ltd., Systems Engineer, Corporate Technologies, June 2016-March 2017

- Development of a model to predict resolution time of IT maintenance tickets using Fuzzy C-Means clustering on summary text feature space of tickets
- The work was accepted at ICWS 2017

Infosys Ltd., Systems Engineer, Infosys Information Platform, August 2015-June 2016

- Development of a platform to predict the rank ordering of classification algorithms on large datasets from a representative sample

Microsoft Technology Associate, Microsoft, 2014

Microsoft Technology Associate in Database Fundamentals certification.

Microsoft Certified Professional, Microsoft, 2014

LANGUAGES

Bengali: Native Language

English: Advanced Speaking, Listening, Read and Writing

Hindi: Intermediate Writing and Reading, Advanced Listening and Speaking

COMPUTER SKILLS

Programming: Python, R, C, C++, Java, C# in Unity, J2EE, SQL, MATLAB (image processing)

Applications: Unity3D, ImageMagick, Tableau, Eclipse

Platforms: Tensorflow, Theano, PyTorch

OTHER

Interests: Playing new and upcoming computer games, reading, listening to music, movie trivia buff, learning new technologies and programming languages.

Citizenship: India

REFERENCES

Prof. Clark Verbrugge, Associate Professor
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