

# Ramnath Kumar

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## EDUCATION

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### **BITS Pilani, Hyderabad Campus**

*Masters of Science in Economics*

*Bachelor of Engineering in Computer Science*

Hyderabad, India

*Aug 2016 – Jun 2021*

- . Achieved overall distinction in Computer Science courses
- . CGPA in Computer Science major: 9.65/10.0 (Top 3 in class of 255)
- . Overall CGPA (B.E. Computer Science and Msc. Economics): 8.92/10.0

## RESEARCH/WORK EXPERIENCE

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### **Mila - Quebec Artificial Intelligence Institute**

*Consultant*

Montreal, Canada

*Jul 2021 – Present*


- . Research Supervisor: Prof. Yoshua Bengio
- . Topic: Deep learning algorithms; Meta-Learning

### **Amazon ML**

*Applied Scientist Intern*

Bangalore, India

*Jan 2021 – Jun 2021*


- . Mentor: Dr. Gokul Swamy
- . Topic: Stochastic Insight into Neural Networks 
- . Published at Amazon's internal conference (AMLC 2021) as the first author. Worked on causal attributions and their implications on the Amazon sales model.

### **Mila - Quebec Artificial Intelligence Institute**

*Research Intern*

Montreal, Canada

*Nov 2020 – Apr 2021*

- . Research Supervisor: Prof. Samira E. Kahou
- . Affiliated University: École de technologie supérieure
- . Topic: Theoretical machine learning in the domain of graph neural networks 

### **Qubole**

*Engineer Intern*

Bangalore, India

*Jul 2020 – Dec 2020*


- . Mentor: Gururaj Krishnamurthy
- . Worked on automating the rollout process (*Frost 2.0*) for the company
- . Built a package for monitoring jobs on jenkins, and notify the user on slack upon completion
- . Wrote and managed a pipeline which analyses various internal tests, and generates ad statistics and communicated results with the core-qa team

### **CoCo Lab, Université de Montréal**

*Research Intern*

Montreal, Canada

*Jun 2020 – Nov 2020*


- . Research Supervisor: Prof. Karim Jerbi
- . Topic: Brain based subject identification using EEG data 

### **Kno.e.sis, Wright State University**

*Research Intern*

Dayton, USA

*May 2019 – August 2019*

- . Research Supervisor: Prof. Amit P. Sheth and Prof. Krishnaprasad Thirunarayan
- . Topic: eDarkFind: Unsupervised Multi-View Learning for Sybil account detection 
- . Worked on sybil detection in the darknet markets using an unsupervised multi-view learning framework.
- . Worked on object detection models for disaster management.
- . Built an image segmentation model to aid the prediction of nutritional data of food.
- . Worked on GANs and NLP to detect suicidal posts in *Suicide Watch* and *Mental Health* subreddits.

**Infibeam***Engineer Intern*

Ahmedabad, India

May 2018 – July 2018

- . Mentor: Paras Pitroda
- . Developed a dynamic portal for UAE to provide various services such as renew the visa, employment letter, etc.
- . Created API endpoints for the project to aid easy app deployment.

**SELECTED AWARDS/ACHIEVEMENTS**


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








<b>Invitee</b> , <i>ML Foundations</i> Sub-track; Research Week with Google, India	2022
<b>Invitee</b> , Machine Learning Summer School, Taipei	2021
<b>Invitee</b> , Google AI Summer School, India (Acceptance Rate: 1.5%)	2020
<b>Travel Grant</b> , The Web Conference, Taipei (Acceptance Rate: 19%)	2020
<b>Awardee</b> , Innovation in Science Pursuit for Inspired Research (INSPIRE) (Acceptance Rate: 1%) (Declined)	2016
<b>Awardee</b> , National Talent Search Examination (NTSE) (Acceptance Rate: 0.5%)	2014
<b>National Olympiad</b> , SOF National Science Olympiad Qualifier (2015), SOF International Math Olympiad Qualifier (2015)	

**REVIEWER**


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<b>NeurIPS</b> , Workshop on Meta-Learning (MetaLearn)	2021
<b>ICWSM</b> , International AAAI Conference on Web and Social Media	2020

**PUBLICATIONS**

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- [1] **Ramnath Kumar**, Tristan Deleu, and Yoshua Bengio. “Rethinking Learning Dynamics in RL using Adversarial Networks”. In: *39th International Conference on Machine Learning, ICML*. , . 2022. **Under Review**.
  - [2] **Ramnath Kumar**, Tristan Deleu, and Yoshua Bengio. “The Effect of diversity in Meta-Learning”. In: *39th International Conference on Machine Learning, ICML*. , . 2022. **Under Review**.
  - [3] **Ramnath Kumar**, Tristan Deleu, and Yoshua Bengio. “Effect of diversity in Meta-Learning”. In: *NeurIPS Workshop on Meta-Learning*. , . 2021.
  - [4] **Ramnath Kumar** and Gokul Swamy. “Stochastic Insight into Neural Networks”. In: *Amazon Machine Learning Conference (AMLC), 2021*. . AmazonML Internal Conference. 2021.
  - [5] **Ramnath Kumar**, Shweta Yadav, Raminta Daniulaityte, Francois Lamy, Krishnaprasad Thirunarayan, Usha Lokala, and Amit Sheth. “eDarkFind: Unsupervised Multi-view Learning for Sybil Account Detection”. In: *Proceedings of The Web Conference 2020*. , . 2020, pp. 1955–1965.
  - [6] **Ramnath Kumar** and G Geethakumari. “Temporal Dynamics and Spatial Content in IoT Malware detection”. In: *TENCON 2019-2019 IEEE Region 10 Conference (TENCON)*. , . IEEE. 2019, pp. 1590–1595.

**LANGUAGES**


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English (Native/Fluent), Hindi (Experienced), Tamil (Experienced), Japanese (Beginner)