

Sanjay Thakur

BOREALIS AI/MRL/RLLAB/MILA · MASTERS IN COMPUTER SCIENCE, MCGILL UNIVERSITY
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Education

Masters of Science in Computer Science

Montreal, Canada

RLLAB/MILA, MCGILL UNIVERSITY

September 2016 - Expected Fall 2018

- GPA: 3.55/4.

Bachelor of Technology in Computer Science and Engineering

Jaipur, India

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY

July 2012 - April 2016

- GPA: 7.84/10.

Experience in Research/Academia

Machine Learning Research Intern, Borealis AI

Toronto/Montreal, Canada

REPORTING MANAGER:: Yevgeniy Vahlis

July 2018 - Present

- I am analyzing the problem of long term dependencies in the sequential modeling problem.

Research Assistant, MRL/RLLab/MILA

Montreal, Canada

SUPERVISORS:: Dr. David Meger AND Dr. Doina Precup

May 2017 - Present

- I am trying to understand Bayesian Neural Networks, and
- use them for trust-worthy, sample-efficient and broader learning.

Teaching Assistant, McGill University

Montreal, Canada

DATABASE SYSTEMS (COMP 421), APPLIED MACHINE LEARNING (COMP 551)

Jan.2017-Apr.2017, Sep.2017-Apr.2018

- The tasks involved designing assignments, giving tutorials, and grading the submissions.

Research Intern at LATECE, UQAM, [Profile Link at LATECE](#)

Montreal, Canada

SUPERVISOR:: Dr. Naouel Moha

May 2015 - August 2015

- Developed tools to detect potential anti-patterns during software development and hence lead to better software evolution later.

Publications/Posters/Talks

A strategical game theoretic based demand response model for residential consumers in a fair environment.

Jaipur, India

INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS. 2018 APR 30;97:201-10.

2016

- Authors:: Pal S, Thakur S, Kumar R, Panigrahi BK.

Industrial Experience

Remote Deep Learning Intern

Montreal, Canada

DATA CULTURE INC.

May 2017 - June 2017

- Designed deep architectures that used cascaded LSTM and feed-forward MLP
- to take actions to minimize or even pre-empt the returns.

Software Development Intern

Mumbai, India

SUPPLY.AI

June 2016 - Aug 2016

- Developed modules that automate the Exploratory Data Analysis of the datasets,
- enhance communication between Apache Spark based units.
- These modules reduced considerable efforts on repetitive tasks made by the employees.

Remote Software Development Intern

Mumbai, India

ANALYZE N CONTROL

October 2015 - February 2016

- Developed an android application that invokes certain web-services via SOAP requests
- to notify stockbrokers with latest notifications by regulators like stock exchanges.

Patents

Railway Maintenance Monitoring System

Jaipur, India

[LINK TO PUBLISHED PATENT \(APPLICATION NO. 1098/DEL/2014\)](#)

2014

- Made an application for the detection and maintenance of Gears and safety-equipments in the Railway Stations for the Indian Railways in a centralized manner via GPS Integration.
- Installed in 3 railway stations.

Intelligent Energy Management System

Jaipur, India

[LINK TO THE INVENTION \(PATENT APPLICATION NUMBER: 2407/DEL/2015\)](#)

2015

- Made a prototype that uses Game Theory and Machine Learning techniques on Demand Side Management, and variable tariff blocks to
- reduce the power consumption bill and variability between power supply and demand.
- It was the central idea behind the startup *SensiYantra* which although didn't work, gave some invaluable lessons.

Selected Honors & Awards

INTERNATIONAL

2015 **SmartMeter**, Runner-ups, GridTech'15 International Conference & Exhibition

New Delhi, India

DOMESTIC

2013 **NANO**, 3rd prize in Android/Web app. development, competition by *Swiftday LLC, USA*

Jaipur, India

2012 **Ship-E-Trophy**, 1st prize in the Robotic event, competition at *Neuron'12, MNIT, Jaipur*

Jaipur, India

Miscellaneous

2017 **Social Service**, taught TensorFlow and Git in McGill Innovation's *AI for Social Good* Summer Lab.

Montreal, Canada

2013 **Zine Website**, Developed the *website* for Zine.

Jaipur, India

2012-2016 **Zine Profile**, Zine Alumni, Robotics and Research Group of MNIT.

Jaipur, India

2013-2016 **Organizer & Lecturer**, at Annual Zine workshop

Jaipur, India