

Karthik Raja Kalaiselvi Bhaskar

<https://karthikraja95.github.io>

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EDUCATION

UNIVERSITY OF TORONTO

M.A.Sc IN ELECTRICAL AND

COMPUTER ENGINEERING

Jan 2018 - Jan 2020 | Toronto, ON

CUM.GPA: 3.94/4.0

ANNA UNIVERSITY

BE IN ELECTRONICS AND

COMMUNICATION ENGINEERING

2012 - 2016 | Chennai, India

CUM.GPA: 3.74/4.0

LINKS

Github:// karthikraja95

LinkedIn:// [Karthik Raja Kalaiselvi Bhaskar](#)

COURSEWORK

GRADUATE COURSES

Neural Networks and Deep Learning

Deep Reinforcement Learning

Introduction to Data Science and

Analytics

Computer Security, Cryptography and

Privacy in Machine Learning

Advanced Network Architecture

Technologies and Enablers for

Software Defined Networks

AUDITED COURSES

Trustworthy Machine Learning

Statistical Learning

Algorithms and Data Structures

TEACHING

• ECE324 - Introduction to Machine Intelligence • APS360 - Fundamentals of Artificial Intelligence • CSC326 - Programming Languages

SKILLS

PyTorch, Tensorflow, Keras, Python, C++, Java, Javascript, Git, HTML, CSS, Bootstrap, Hadoop, AWS, AngularJs, NodeJs, Flask, SQL, Django, Testing, Github, Linux, ORMs, APIs, CI/CD, Spark, Security, Machine Learning, Deep Learning, Reinforcement Learning, Big Data, Cloud Computing, Software Engineering, etc.

EXPERIENCE

WEARTECH | MACHINE LEARNING ENGINEER

Sep 2018 - April 2019 | Toronto, ON

- Succeeded building Deep learning based Face Recognition algorithm to help people with a neurological disorder called Prosopagnosia.

UNIVERSITY OF TORONTO DATA SCIENCE TEAM | MACHINE

LEARNING ENGINEER & PROJECT LEAD

Sep 2018 - April 2019 | Toronto, ON

- Mentored undergraduate students throughout different deep learning projects.
- Built real-time projects in CV, NLP, Affective Computing, etc.

TORONTO-DOMINION BANK | MACHINE LEARNING RESEARCH

ENGINEER IN CYBERSECURITY R&D

Summer 2018, 2019 | Toronto, ON

- Devised a Deep Learning model that detects and prevents the cyberattack before it happens (ProjectX).
- Built Unsupervised Auto Tagging algorithm and Automatic Rule Synthesis for Octavius.
- Investigated an Automatic Rule synthesis algorithm for Octavius using Deep Reinforcement Learning (Project Nemesis).

INFOSYS | SYSTEM ENGINEER

May 2016 - Aug 2017 | Chennai, India & Mysore, India

- Developed a Mobile Comparison App using Java, Bootstrap, AngularJs, REST.
- Implemented customized online E-commerce website for Walmart and banking services for Bank of America using Java

RESEARCH

UNIVERSITY OF TORONTO & WOLSELEY | RESEARCHER

Sep 2018 - Jan 2020 | Toronto, ON & Burlington, ON

Designed Deep Learning based Recommendation System for **Wolseley's** e-commerce website with **Prof Deepa Kundur** and **Prof Yuri Lawryshyn**.

UNIVERSITY OF TORONTO | RESEARCH ASSISTANT

Sep 2018 - April 2019 | Toronto, ON

Engineered Deep Learning based Text Classification and Clustering models for **The New York Times** with **Prof Michelle Alexopoulos** and **Prof Periklis Andritsos**.

PROJECTS

• Human like Chess engine • Transferability of Defense GAN technique to Physical Adversarial examples • Facebook Friend Recommendation • Quora Question Pair Similarity • NYC Taxi Demand Prediction • Personalized Cancer Detection • Stackoverflow Tag Predictor • Microsoft Malware Detection • HyperFace • Human Activity Recognition • Self Driving cars

For more details about the projects, please visit <https://karthikraja95.github.io/>.

EXTRACURRICULAR ACTIVITIES

• State Level Basketball player • University Handball player • Vice President of Indian Graduate Student Association • Best Outgoing Student of my University 2012 - 2016 for Overall Achievements • Chief Organizer for InnoWiz 2k15 (National Level Technical Symposium)