

Prakhar Verma

MASTER'S STUDENT · MACHINE LEARNING, DATA SCIENCE, AND ARTIFICIAL INTELLIGENCE · AALTO UNIVERSITY

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Summary

I am a high energy, confident professional with an infectious enthusiasm for technology. Prior to my masters, I have worked in an R&D department of a multi-national company, a start-up, a public sector company, and an NGO. I possess a track record of good grades, certifications, projects, and presentations.

My research interests are, but not limited to, computer vision, deep learning, reinforcement learning, GANs and their application in various fields.

Education

Aalto University

M.S. IN MACHINE LEARNING, DATA SCIENCE, AND ARTIFICIAL INTELLIGENCE

Finland

2019 - Present

Dehradun Institute of Technology

B.TECH IN INFORMATION TECHNOLOGY (FIRST DIVISION WITH HONORS)

India

2012 - 2016

Experience

TomTom

SOFTWARE ENGINEER

Pune, India

July 2016 - August 2019

I was a member of the R&D team which is responsible to devise, develop, and bring into production innovative new technologies.

Majorly, my work revolved around machine learning (semantic segmentation), image processing, and automation with a focus on revolutionizing map data.

Internship

TomTom

INTERN (BACHELOR THESIS)

Pune, India

January 2016 - June 2016

- Developed a toolkit for on-field map-making
- Thesis was nominated as the most innovative thesis at the university

Instano Technologies

SOFTWARE INTERN

Bangalore, India

May 2015 - June 2015

- I was able to explore the entrepreneur inside me
- Handled both the backend and frontend development of the product

Oil and Natural Gas

TRAINEE

Dehradun, India

December 2014 - January 2015

- Worked on the development of an "Entry Pass Verification System"
- It helps employees in obtaining the entry pass for their vehicles and security officer in identifying the vehicles

ETASHA Society

INTERN

New Delhi, India

June 2014 - July 2014

- Worked on the testing and roll-out of CRM tool.
- Handled the data migration and conducted various training sessions

Teaching

Deep Learning (CS-E4070)

AALTO UNIVERSITY

Finland

Spring 2020

- One of the teaching assistant for the course
- My responsibilities include assignment creation, supervision along with the professor.

Projects

Spectral Graph Analysis

AALTO UNIVERSITY

November 2019

The project aims to perform graph partitioning with the use of Spectral Clustering on social network graphs. The goal is to minimize the number of cuts while maintaining cluster size balance.

More Details : [Github Repository](#)

Bayesian Statistics Global Warming

AALTO UNIVERSITY

November 2019

Today, one of the biggest threat to the society is global warming. Sea level rise is the immediate result of global warming as it melts the ice sheets and expands the water volume. Goal of the project is to examine how much the sea level rise affects the coastal cities in Finland.

More details : [Github Repository](#)

Speaker Adaptation

AALTO UNIVERSITY

November 2019

Speaker adaptation uses various techniques to adapt a speech recognition system to user-specific acoustic features. The recognition performance of such systems has not reached that of speaker-dependent ones, though recent development in the processes has proven to improve the recognition results. In this project, various speaker adaptation techniques based on various training methods and their respective results measured by performance levels (word error rate percentage) are presented.

More details : [Research Paper](#)

More Projects

GITHUB

<https://github.com/prakharverma>

Presentations

12th International Conference on Machine Vision

Amsterdam

PRESENTED : [M.A.G.E.C -MACHINE ASSISTED GEOMETRY EXTRACTION AND CREATION](#)

November 2019

Google Developers Group 2018

India

PRESENTED : [TENSORFLOW CASE STUDY](#)

April 2018

GeoSpatial World Forum 2018

India

PRESENTED : [FEATURE EXTRACTION FROM SATELLITE IMAGERY](#)

January 2018

Accomplishments

- Awarded “Face of TomTom 2018” for actively representing TomTom in conferences and promoting the brand.
- Winner of TomTom “Innovation Day 2018”, presented an artificial intelligence plugin which bridges the gap between machines and cartographers.
- Mentor at “[TomTom External Hackathon 2018](#)”.
- “Electronic Health Record” idea was selected in Top 10 at a national event, “India Ideathon 2015”.