

# Himalaya Sharma

Portfolio: <https://himalayasharma.github.io/>

Github: [github.com/himalayasharma](https://github.com/himalayasharma)

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## EDUCATION

- **University of Waterloo** Waterloo, Canada  
Master of Engineering - Electrical & Computer Engineering; Percentage - 92%  
*Jan 2022 - Present*  
**Relevant Coursework:** Deep Learning, Machine Learning, Statistics for Data Analysis
- **Birla Institute of Technology & Science** Goa, India  
Bachelor of Engineering - Electronics & Communication Engineering; GPA - 8.30/10  
Master of Science - Biological Sciences; CGPA - 8.30/10  
*Aug 2016 - May 2021*  
**Relevant Coursework:** Linear Algebra, Calculus, Probability & Statistics, Digital Signal Processing, Introduction to Bioinformatics

## SKILLS SUMMARY

- **Languages & Tools:** Python, R, Git
- **Frameworks & Packages:** Scikit-Learn, TensorFlow, Keras, NumPy, SciPy, Pandas, Matplotlib
- **Data Science & Machine Learning:** Data Collation & Wrangling, Statistical Analysis, Model Development & Enhancement, Visualization & Interpretation, Clustering, Classification, Regression

## EXPERIENCE

- **New York University Abu Dhabi** Abu Dhabi, UAE  
Research Intern  
○ pass: pass
- **Technical University of Vienna** Vienna, Austria  
Research Intern (CARE-Tech. group)  
○ pass: pass  
*May 2020 - Dec 2020*

## PROJECTS

- **Vision - multimedia search engine (NLP, Search Engine, Web Crawlers, Multimedia Processing):** (Work in progress) Research oriented, open source, search engine for bringing reverse multimedia search to small & mid scale enterprises. Tech: Python, NodeJS, Intel OpenVino Toolkit, Selenium, TensorFlow (October '18)
- **Reinforcement Learning based Traffic Control System (Reinforcement Learning, Computer Vision):** AI model to resolve city traffic around 50% faster. Tech: Python, Alibaba Cloud, Raspberry Pi, Arduino, SUMO & OpenCV. (August '18)
- **Panorama from Satellite Imagery using Distributed Computing (Distributed Computing, Image Processing):** Images clicked using drones, provided by ISRO were stitched together using distributed public compute nodes, effectively bringing down processing time exponentially. Tech: PHP, C++, Java, Python (March '18)
- **Drag-n-drop machine learning learning environment (Web Development, Machine Learning):** Scratch like tool for implementing machine learning pipelines along with built in tutorial for each concept. Tech: Python, JavaScript (September '18)
- **Search Engine and Social Network (Web Development, Web Crawler, Search):** Created from scratch a social network and a search engine based on the idea of integrating Facebook and Google. The launched website was among top 1000 websites in India during 2012-2013. Tech: PHP, MySQL, HTML, CSS, WebSockets, JavaScript, RSS, XML ( May '12)

## PUBLICATIONS

- **Book: Deep Learning on Web (Web Development, Deep Learning):** Work in Progress book to be published by Packt Publishing in late 2019. Tech: Django, Python, AWS, GCP, Azure (November '18)
- **Book: Deep Learning on Mobile Devices (Flutter App Development, Deep Learning):** Work in Progress book to be published by Packt Publishing in late 2019. Tech: Flutter, Android, Firebase, TensorFlow, Python, Dart (December '18)

## HONORS AND AWARDS

- Awarded title of Intel Software Innovator - May, 2019
- Second Runner's Up at TCS EngiNx Engineering Project Innovation Content - September, 2018
- Runner's Up at Facebook Developers Circle Hackathon - August, 2017

## VOLUNTEER EXPERIENCE

- **Community Lead at Developer Student Clubs NSEC** Kolkata, India  
*Conducted online and offline technical & soft-skills training impacting over 3000 students.*  
*Jan 2019 - Present*
- **Event Organizer at Google Developers Group Kolkata** Kolkata, India  
*Organized events, conducted workshops and delivered workshops reaching over 7000 developers.*  
*Jan 2018 - Present*