

Himalaya Sharma

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

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EDUCATION

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- 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* *Aug 2016 - May 2021*
 - Master of Science - Biological Sciences; CGPA - 8.30/10*
 - Relevant Coursework: Linear Algebra, Calculus, Probability & Statistics, Digital Signal Processing, Introduction to Bioinformatics*

SKILLS SUMMARY

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- 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

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- New York University Abu Dhabi** Abu Dhabi, UAE
 - Research Intern* *Jan 2021 - May 2021*
 - **pass:** pass
 - Technical University of Vienna** Vienna, Austria
 - Research Intern (CARE-Tech. group)* *May 2020 - Dec 2020*
 - **pass:** pass

PROJECTS

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- Vison - 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

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- 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

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- 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

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- 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*