Himalaya Sharma

Portfolio: https://himalayasharma.github.io/
Github: github.com/himalayasharma

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Education

University of Waterloo — Waterloo, Canada
Master of Engineering - Electrical & Computer Engineering — 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 — Aug 2016 - May 2021
Master of Science - Biological Sciences
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 — Jan 2021 - May 2021
- **pass**: pass

Technical University of Vienna — Vienna, Austria
Research Intern (CARE-Tech. group) — May 2020 - Dec 2020
- **pass**: pass

Projects

- **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

- **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