

Himalaya Sharma

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

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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 *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

- **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 *January 2021 - May 2021*
 - **pass:** pass
- **Technical University of Vienna** Vienna, Austria
Research Intern - CARE Tech. group *August 2020 - December 2020*
 - **pass:** pass
- **Technical University of Vienna** Vienna, Austria
Summer Research Intern - CARE Tech. group *May 2020 - July 2020*
 - **pass:** pass

PROJECTS

- **Reverse Image Search Engine:** Gives top 5 matches for input query image [Github] [Medium]
 - Constructed **content-based image retrieval (CBIR)** system using Oxford's **VGG-16 deep learning model** and **CIFAR-10** dataset.
 - Utilized **pre-trained** model (with **ImageNet** weights) for **multi-class classification** and obtained **accuracy** of **89%** on **stratified validation set** and **90%** on **test set**.
 - Employed network front-end for **feature extraction** and generated **60k** image encodings to compute similarity scores against query image for obtaining **top 5 matches**.

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)

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*