

Srishti Yadav

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WORK EXPERIENCE

CubicFarms Corp.

Sep. 2021 – Nov 2022

Machine Learning Engineer

Canada

- Built end-to-end ML pipeline to capture plants image, weight and predict lettuce biomass, for entire greenhouse.
- Designed user-friendly dashboards to visualize plant metadata trends & improve decision-making.
- **Key Results:**
 - Enabled 95% size-estimation accuracy prediction from model deployed on Azure server.
 - Increased data collection speed by 2x through integration with Azure Blob.
 - Supported 2 R&D sites in Alberta and BC for real-time report generation on PowerBI dashboards.
- **Stack:** Python, Matplotlib, Pytorch, Numpy, Azure Data warehouse, AML, Azure functions.

MILA (Quebec AI Institute)

Sep. 2020 – Sep. 2021

Machine Learning Software Developer

Canada

- Built models for bird distribution modeling using citizen science and remote sensing data.
- As first hire, played a key role in project foundation, defining scope and objectives.
- **Key Results:** The efforts led to the team's paper accepted to a workshop at ICLR 2023.
- **Stack:** Pytorch, Python, Matplotlib, Azure functions, Azure Data Warehouse.

UrtheCast (now EarthDaily)

Jan 2020 – Sep 2020

Machine Learning Software Developer

Canada

- Built an end-to-end ML workflow that ingests raw multi-dimensional rasters from Landsat-8, SPARCS, and Sentinel-2, standardizes them into model-ready tiles for multi-class prediction of cloud, shadow and haze.
- Containerized the pipeline with Docker and scaled training/inference on AWS (EC2 for compute, S3 for storage), enabling parallel job execution and cost-efficient, production-grade performance.
- **Stack:** PyTorch, Numpy, Scipy, OpenCV, Matplotlib, AWS cloud services like S3, EC2.

Samsung IoT Lab

Jun 2016 – Jul 2017

Computer Vision Engineer

India

- Developed a video analytic algorithm to infer position, lane and density of vehicles in front of the camera.
- Optimized code on Raspberry Pi 3 Model B which required porting code to Octave.
- **Stack:** Octave, Numpy, Scipy, Python, OpenCV, Matplotlib.

EDUCATION

University of Copenhagen

2023 - present

ELLIS PhD (5% acceptance rate), Computer Science

Copenhagen & Amsterdam

- Researching cross-cultural multimodality, multimodal interpretability & fine-grained narrative analysis.
- Advised by Prof. Serge Belongie (Copenhagen) & Prof. Ekaterina Shutova (Amsterdam).

Simon Fraser University

2018-2020

MS, Engineering Science, Full Scholarship

Canada

- Developed RGB-D occlusion-aware trackers improving accuracy by 50 % over baseline KCF.
- Published 5 papers on visual tracking & kernel correlation filters (KCF); poster at WiML @ NeurIPS 2019.

PUBLICATIONS

- **Srishti Yadav***, Arora, Arnav*, Maria Antoniak, Serge Belongie, and Isabelle Augenstein. "Multi-Modal Framing Analysis of News." arXiv preprint arXiv:2503.20960 (2025).
- **Srishti Yadav**, Zhi Zhang, Daniel Hershcovich, and Ekaterina Shutova. "Beyond Words: Exploring Cultural Value Sensitivity in Multimodal Models." NAACL 2025.

- Zhang, Zhi, **Srishti Yadav**, Fengze Han, and Ekaterina Shutova. "Cross-modal Information Flow in Multimodal Large Language Models." arXiv preprint CVPR 2024.
- Wright, Dustin, Arnav Arora, Nadav Borenstein, **Srishti Yadav**, Serge Belongie, and Isabelle Augenstein. "LLM Tropes: Revealing Fine-Grained Values and Opinions in Large Language Models." In Findings of the Association for Computational Linguistics: EMNLP 2024, pp. 17085-17112. 2024.
- Pawar, Siddhesh, Junyeong Park, Jiho Jin, Arnav Arora, Junho Myung, **Srishti Yadav**, Faiz Ghifari Haznitrama, Inhwa Song, Alice Oh, and Isabelle Augenstein. "Survey of cultural awareness in language models: Text and beyond." arXiv preprint arXiv:2411.00860 (2024).
- Christensen, Peter Ebert, **Srishti Yadav**, and Serge Belongie. "Prompt, condition, and generate: classification of unsupported claims with in-context learning." arXiv preprint arXiv:2309.10359 (2023).
- **Srishti Yadav**, and Shahram Payandeh. "DATaR: depth augmented target redetection using kernelized correlation filter." Multimedia Systems 29, no. 1 (2023): 401-420.
- **Srishti Yadav**, and Shahram Payandeh. "Critical overview of visual tracking with kernel correlation filter." Technologies 9, no. 4 (2021): 93.
- **Srishti Yadav**. "Occlusion Aware Kernel Correlation Filter Tracker using RGB-D." arXiv preprint arXiv:2105.12161 (2021).
- Rasoulidaneh, Maryamsadat, **Srishti Yadav**, Sachini Herath, Yasaman Vaghei, and Shahram Payandeh. "Deep attention models for human tracking using RGBD." Sensors 19, no. 4 (2019): 750.

OUTREACH

- Board Member, Women in Computer Vision (WiCV)
- Organizer, Workshop on Fine-grained Visual Categorization @CVPR 2023, 2024
- Advisor, Women in Computer Vision (WiCV) @ICCV 2023, @CVPR 2021
- Founding member, Vancouver Datajam (2020-2022)
- Organizer, Women in Computer Vision (WiCV) @CVPR 2020
- Robotics mentor, Invent the Future, AI4ALL@SFU, Vancouver, Canada

Speaker & Media Coverage

- Gave a talk UBC, Vancouver on "What Do Large Models Know of our Multicultural World".
- Gave talk on 'Scalable Hyper-parameter Optimization using RAPIDS and AWS, at PyBay 2020.
- One of the 7 people featured on Google WTM: <https://www.youtube.com/watch?v=CtbtYMPc2BI> .
- Panelist on 'Debiasing AI In A Changing World: Ethics, Data & Technology in AI' at WiT Regatta, 2020