

Nikesh Subedi

PhD Candidate, University of Utah, Salt Lake City, Utah
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RESEARCH INTERESTS

I am interested in video understanding and broadly computer vision with a focus on multimodal learning.

EDUCATION

University of Utah, Salt Lake City, US Aug 2023 — Present
PhD in Computing, AI Track
Advisor: Ziad Al-Halah

Howard University, Washington DC, US Aug 2019 — May 2023
Bachelor of Science: Computer Science
GPA: 4.0

EXPERIENCE

University of Utah Aug 2023 — Present
Research Assistant

- Researching data augmentation methods to improve episodic memory capabilities of AI models.
- Researching impacts of introducing shift-invariance as an inductive bias into video understanding models.

AWARDS

Howard University Founders' Scholarship
Full Tuition Scholarship for Undergraduate Study

OTHER EXPERIENCES

Meta Menlo Park, CA, US
Software Engineering Intern May 2022 — Aug 2022

- Added features on ML Data Validation System for AI Data Insights (AIDI) to continuously search and alert anomalies in all registered ML Datasets using evaluation metric information.
- Created scalable evaluation metrics calculation system with Python/PyTorch and C++ that calculates statistics about evaluation metrics for large datasets (500 TB) and finds anomalies in the data using those statistics.

Mathpix Remote
Software Engineering Intern Jan 2022 — May 2022

- Worked to improve Mathpix's Snip app on Web and iOS using React and Swift.
- Prototyped new Mathpix product Digital Ink to be integrated into Snip app which provides users access to a sketchpad to draw any equation on the web or on mobile app to get LaTeX equation updates in realtime.

Meta Menlo Park, CA, US
Software Engineering Intern May 2021 — Aug 2021

- Worked on AIBench, Facebook's internal AI benchmarking platform, which allows benchmarking of AI models on servers or directly on consumer devices.
- Created general benchmarking programs for Pytorch models and developed API and CLI tool for other developers to leverage the benchmarking platform.

Google Menlo Park, CA, US
CSRMP Mentee Jan 2021 — May 2021

- Mentored by a Google researcher for a semester on navigating computing and AI research. Planned course of actions to be involved in AI research and attended conferences.

Facebook Menlo Park, CA, US
FBU Intern Jun 2020 — May 2020

- Learned about iOS app development, mentored by Facebook engineer to individually develop an original app called MathNotes which uses Mathpix API to turn photos of math equations into LaTeX and make notes using the equations snippets and a text editor. These notes can then be shared with other users.