

## ABHIJAN WASTI

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### COMPUTER VISION ENGINEER

Imaging scientist with an interest in image processing and computer vision

#### Education

**Rochester Institute of Technology - Full Scholarship**  
**MS in Imaging Science** (Advisor: Gabriel Diaz)

**Rochester, NY**  
**Present**

- Deep Learning, Image Processing and Computer Vision
- Advanced Eye Tracking, The Human Visual System
- Fourier Methods for Imaging, Procedural Shading

**Institute of Engineering, Tribhuvan University - Full Scholarship**  
**BE in Electronics and Communication Engineering**

**Kathmandu, Nepal**  
**2019**

- Image Processing and Pattern Recognition, Artificial Intelligence, Probability and Statistics, Big Data
- Capstone Project: Aerial View-Based Guidance System
  - Introduced a semi-autonomous two-vehicle navigation system capable of guiding the ground vehicle with dynamic feed from the aerial vehicle

**Online Courses:** [Machine Learning](#), [Computer Vision](#), [Neural Network and Deep Learning](#), [Improving Deep Neural Networks](#)

#### Work Experience

**Graduate Research Assistant** – Rochester Institute of Technology

**Aug 2021 – Current**

- Improving current eye tracking technology for better gaze estimation (funded my Meta Oculus)
- Completed responsibilities as TA for “Imaging Science Fundamentals” with an 87% pass rate

**Machine Learning Intern** – FuseMachines Inc.

**May 2021 – Aug 2021**

- Reviewed and implemented techniques in exploratory data analysis and data visualization
- Worked with libraries such as numpy, pandas, and matplotlib for statistical analysis and modeling
- Reviewed and implemented machine learning pipeline and deep learning architecture
- Collaborated with a team over git and google colab
- Created APIs to deploy ML models with tools such as fastapi, streamlit and docker

**Embedded Systems Developer** – Machineer Technology Pvt. Ltd.

**Apr 2021 – Aug 2021**

- Designed and implemented a transformer monitoring system for the urban electricity grid
- Developed a low-cost GPS-less technique for geolocation suitable for a business district

#### Skills

**Programming Languages:** Python, C, C++, MATLAB, Javascript, HTML, CSS

**Libraries:** OpenCV, numpy, pandas, matplotlib, sklearn, PyTorch

**Software:** Blender, Pupil Core

#### Other Projects ([Github](#))

**Halftoner** - created a python library that supports halftoning, dithering and removal of halftoning in images

**Sentiment Classifier** - trained and deployed a natural language sentiment analyzer

**Colora** - built a prototype application that uses image processing to create vector-style edits

**Several Audio-Visual Experiences** - created multiple projects combining 3D modeling, lighting and shading, rendering, sound design, and compositing using software such as Blender, Adobe After Effects, Adobe Premiere Pro, DaVinci Resolve, etc. ([link here](#))

#### Organizations and Scholarships

**AWARE-AI NSF Research Traineeship (NRT)**

**2022 - Current**

**Board Member** - Rotaract Club of Kathmandu

**2018 - 2021**

- Collaborated with over 120 clubs from all over the world to publish 22 bulletins as chief editor

**President** - Robotics and Automation Center

**2017 - 2018**

- Led the club and managed funds worth \$3000, organized training and competitions for 30+ students