

□ (+91) 99577 60818 | **I** dnamrata@cs.ubc.ca | **I** namratadeka | **I** namrata-deka

Education

The University of British Columbia

Vancouver, Canada MASTER OF SCIENCE IN COMPUTER SCIENCE

2020 - 2022

Indraprastha Institute of Information Technology

New Delhi, India

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING

2013 - 2017

• GPA: 8.41/10

• Among the 10% in the class to graduate with Honors

Experience _

The University of British Columbia

Vancouver, Canada

September 2020 - Present

GRADUATE RESEARCH ASSISTANT

- Advisor: Dr. Dougal J. Sutherland
- · Working on methods to learn deep kernels that can meaningfully distinguish between two samples of high-dimensional data.

Wadhwani Institute for Artificial Intelligence

Mumbai, India

RESEARCH FELLOW

RESEARCH INTERN

August 2018 - August 2020

- Mentors: Dr. Rahul Panicker, Dr. P. Anandan and Dr. Alpan Raval
- Built an Al-based solution to screen low birth-weight babies using monocular videos in rural India.
- Built a pipeline to generate and annotate synthetic videos of infants using a differentiable renderer.
- Created a novel deep learning algorithm to reconstruct infant meshes to metric scale using deformable models of reference object in the scene.
- Mentored undergraduate research interns over the summer months of 2019 and 2020.

Microsoft Research Bengaluru, India

• Mentor: Dr. Sreangsu Acharyya

Jan 2018 - July 2018

- · Built a classifier to tag very rare personally identifiable information (P.I.I.) of customers using area under ROC curve pairwise-optimization methods derived from the Neyman-Pearson lemma.
- · Achieved an AUROC of 0.998 for the rarest P.I.I. tag which accounted for only 0.54% of the entire dataset.
- · The resulting model is currently being used by internal teams across Microsoft to comply with the EU GDPR mandate.

Indraprastha Institute of Information Technology (IIITD)

New Delhi, India Sep 2017 - Nov 2017

RESEARCH ASSISTANT

- Mentors: Dr. Saket Anand and Dr. Sanjit Kaul
- · Conducted research on incorporating driver-pedestrian gaze interaction patterns for learning cost-maps and driving policy via inverse reinforcement learning towards the goal of understanding how people drive on Indian roads.

Elucidata Corporation New Delhi, India

SOFTWARE INTERN

May 2016 - July 2016

- Mentors: RAAISA MAHAJAN
- · Designed and implemented a python package to generate ODEs for labeled isotopomers of metabolites involved in a metabolic pathway.

Teaching Experience

Indraprastha Institute of Information Technology (IIITD)

New Delhi, India

TEACHING ASSISTANT

- Computer Vision Graduate Level (42 students)
- Advanced Programming Undergraduate Level (200 students)

Invited Talks

Perceiving Systems Department, Max Planck Institute for Intelligent Systems

Tübingen, Germany

NEONATAL (AND INFANT) ANTHROPOMETRY AND GROWTH TRACKING VIA MODEL BASED 3D RECONSTRUCTION FROM VIDEO

November 2019

Honors & Awards

INTERNATIONAL

2019

Final Wild Card Entry, Infant anthropometry solution at WadhwaniAI was the only team from the entire developing world to be selected for the \$5M IBM WATSON AI XPRIZE

Extracurricular Activity

Women's Basketball Team (IIITD)

CORE MEMBER & CAPTAIN FROM 2014-2016

· Elected as the basketball coordinator in 2015

Women's Volleyball Team (IIITD)

CORE MEMBER

• Winner of Twarang 2015 (National Level Tournament organized by IIIT Gwalior)

Women's Basketball Team (Mody School)

CORE MEMBER & CAPTAIN FROM 2007-2009

• Winner of the U17 district-level tournament in 2009

- Awarded the title of best basketball player at the U17 district-level tournament in 2009
- Captain of the state-level U17 team in 2009
- Winner of the U14 district-level tournament in 2007

National Cadet Corps (NCC), India

CORE MEMBER IN 2008

• Awarded the trophy of best cadet among a class size of over 50 cadets.

New Delhi, India

August 2013 - May 2017

New Delhi, India

August 2013 - May 2017

Lakshmangarh, Rajasthan

July 2005 - March 2010

Jaipur, Rajasthan

July 2008 - March 2009