LAMHA GOEL

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EDUCATION

MS in Computer Science *Aug 2022 - May 2024 (expected)*
University of Texas at Austin *CGPA: 4.0/4.0 (Till 1st sem)*
B.Tech. (Honors) in Computer Science and Engineering *Aug 2015 - May 2019*
Indraprastha Institute of Information Technology, Delhi *CGPA: 10/10*
Recipient of Chancellor's Gold Medal *Department Rank: 1*

WORK EXPERIENCE

Microsoft
Software Engineer 2 *Feb 2021 - Jul 2022*
Software Engineer *Jul 2019 - Feb 2021*
- Implemented the API for Designer in Word: millions of users now reformat the document in a single click.
- Optimized interactive performance from 400ms to 10ms, same solution optimized multiple other features.
- Re-designed crucial components to improve collaboration experience on Word.
- Re-architectured tens of thousands lines of code to support modification of initially immutable objects.

Amazon
Software Development Engineering Intern *May 2018 - Jul 2018*
- Designed and implemented a push notifications system for the Amazon Relay website.
- Ensured seamless collaboration with Amazon internal tools and AWS tools.
- Integrated with the mail pipeline to enable mail notifications as well.

RESEARCH EXPERIENCE

Image Analysis and Biometrics Lab, *Undergraduate Research* *Aug 2017 - Jun 2019*
- Developed Machine Learning approaches for image classification with small databases & facial recognition.
- Developed sophisticated methods using self-supervised learning & Generative Adversarial Networks. [Thesis]

PUBLICATIONS

LC-DECAL: Label Consistent Deep Collaborative Learning for Face Recognition
***Lamha Goel**, Mayank Vatsa, Richa Singh*
IEEE International Conference on Biometrics: Theory, Applications and Systems, BTAS 2019
Link | PDF | Slides

SKILLS AND INTERESTS

Interest Area	Machine Learning, Computer Vision, Natural Language Processing
Languages, Tools & Technologies	Java, Python, C, C++, C#, PyTorch, TypeScript, React

PROJECTS

Learning to play Go *Sep 2018 - Dec 2018*
Trained an AI for Go for smaller sized boards using Reinforcement Learning.
Adversarial Perturbation Modelling *Aug 2018 - Nov 2018*
Generated perturbations for images to worsen their classification without much visual differences. [Report]
Movie Recommender System *Aug 2017 - Nov 2017*
Created a movie recommender system using the MovieLens 100K dataset. [Report]

POSITIONS OF RESPONSIBILITY, AWARDS AND ACHIEVEMENTS

- Teaching Assistant for Algorithms (CS388G) course (Spring 2023)
- Sponsored by Microsoft to attend Grace Hopper Celebration (vGHC 2021)
- Recognized for hosting knowledge sharing sessions for the team multiple times (Microsoft, 2021)
- Hackathon winner for Word for the project *Draw Your Mind* (Microsoft, 2020)
- The first student to graduate with CGPA 10 in the history of my B.Tech. institute (IIIT-D, 2019)
- Teaching Assistant for Database Systems (CSE202) and Machine Learning (CSE343) courses (2018)
- Volunteered to teach students of class 3rd to 7th and basics of computers to others (2016)