

Aayush Mishra

amishr24@jh.edu [work] · aayushmishra777@gmail.com [personal] · GitHub · LinkedIn

I am passionate about Robust and Explainable Machine Intelligence.

EDUCATION

Johns Hopkins University <i>PhD</i> in Computer Science	Jan 2022 – [transcript]
Indian Institute of Technology, Mandi <i>Bachelor of Technology</i> in Computer Science and Engineering with <i>Minor</i> in Management	Aug 2015 – Jun 2019 <i>CGPA: 8.88 / 10</i> [transcript]

WORK EXPERIENCE

Microsoft <i>Data and Applied Scientist</i> – Shopping Team	<i>Hyderabad, India</i> Aug 2021 – Jan 2022
Siemens <i>Research Professional</i> – Verification and Validation of Intelligent Systems	<i>Bengaluru, India</i> Jul 2019 – Aug 2021

UNDERGRADUATE RESEARCH EXPERIENCE

- **Generating MasterPrints** – Bachelor's Thesis [link] Aug 2018 – May 2019
Advisor – Dr. Aditya Nigam
- **Video Steganography** – [link to paper] Mar 2019 – Apr 2019
Advisor – Dr. Aditya Nigam

PUBLICATIONS / INVENTIONS / PEER REVIEWS

3. *Repeated Environment Inference for Invariant Learning*
Mishra A., Liu A., at ICML 2022 (SCIS Workshop) [link to paper]
2. *Novel usage of Model Coverage for Network Pruning, Optimization and Explanation*
Mishra A., Defensive Publication – Siemens, 2020.
1. *VStegNET: Video Steganography Network using Spatio-Temporal features and Micro-Bottleneck*
Mishra A., et al, at BMVC, 2019. [link to paper]

TEACHING EXPERIENCE

- **CS671 – Deep Learning and its Applications** – Dr. Aditya Nigam [link] *Spring 2019*
- **CS562 – Artificial Intelligence** – Dr. Deepak Khemani [link] *Fall 2018*

MISCELLANEOUS

- **Skills:** Proficient in Python, C++ and C. Well-versed in usage of ML/CV/NLP libraries.
- **Achievements:** Awarded for TA Duties in the course of AI, 2019. Rank – 2581 (~1.3M candidates) in JEE Advanced (2015), Rank – 23 (~150K candidates) in UPSEE (2015).
- **Leadership:** Coordinated the activities of Entrepreneurship-Cell at IIT Mandi during 2016-17. Supervised Interns in research projects at Siemens.
- **Volunteering:** Designed and taught an introductory ML course to high school students in my hometown, 2020.