Shivang Chopra

Natural Language Processing | Computer Vision | Machine Learning

@ shivangchopra11@gatech.edu 📱 +1 (470) 890 7307 shivangchopra11.github.io in shivangchopra11

EDUCATION

- **Georgia Institute of Technology**   Aug 2022 - May 2024 (expected)
  Master of Science in Computer Science

- **Delhi Technological University**   Aug 2016 - June 2020
  Bachelor of Technology in Computer Science   CGPA: 8.62 / 10.0

RESEARCH EXPERIENCE

- **Microsoft Research Redmond**   Redmond, WA
  Student Researcher | Advisor: Dr. Vibhav Vineet   Aug 2022 - Present
    ○ Working on making 3D object detection models like Point-MAE robust to occlusions.

- **Microsoft Research India**   Bangalore, India
  Research Intern | Advisors: Dr. Venkat Padmanabhan, Dr. Saumay Pushp   May 2022 - Aug 2022
    ○ Worked on enabling informal interaction among users in hybrid workspaces. Submitted to **UbiComp 2022**.

- **University of Texas, Dallas**   Dallas, TX
  Research Intern | Advisor: Prof. Rishabh Iyer   Mar 2022 - July 2022
    ○ Worked on the problem of unknown class data discovery using a submodular information measures-based
      active learning approach. Paper published at RealML workshop at **ICML 2022**.

- **University of Pennsylvania**   Philadelphia, PA
  Research Intern | Advisors: Prof. R. Babak Faryabi, Dr. Aanchal Mongia   July 2021 - Dec 2021
    ○ Worked on cancer-causing gene detection in Fluorescent In-Situ Hybridization (FISH) images using FRCNN.

- **IBM Research Lab**   Delhi, India
  Summer Research Intern | Advisors: Dr. Sameep Mehta, Dr. Nishtha Madaan   June 2020 - Aug 2020
    ○ Worked on a multi-modal system for storyline preserving explicit content detection from OTT content.

- **IIIT Delhi**   Delhi, India
  Research Intern | Advisors: Prof. Rajiv Ratn Shah   Aug 2019 - Aug 2020
    ○ Worked on hatespeech detection in low-resource code-mixed languages. Paper published at **AAAI 2020**

INDUSTRY EXPERIENCE

- **Trilogy Innovations (formerly CodeNation Innovation Labs)**   Bengaluru, India
  Software Development Engineer 2   Aug 2020 - May 2022
    ○ **Project**: Worked on a cab ride-sharing app to be used by attendees at the AWS re:Invent 2021.
    ○ **Tech Stack**: iOS, Android, Swift, Kotlin, Java Spring
  Software Development Engineer 1
    ○ **Project**: Developed an engaging and interactive web application for the students of grades K-5.
    ○ **Tech Stack**: React, nodeJS, Django, AWS

PUBLICATIONS

Under Review

- Harsh Vijay, Saumay Pushp, Amish Mittal, Praveen Gupta, Meghna Gupta, Sirish Gambhira, **Shivang Chopra**,
  Mayank Baranwal, Arshia Arya, Ajay Manchepalli, Venkat Padmanabhan
  "HyWay: Enabling Unstructured Conversations in the Hybrid World". Under review at **UbiComp 2023**.

Published

- Suraj Kothawade, **Shivang Chopra**, Saikat Ghosh and Rishabh Iyer
  "Active Data Discovery: Mining Unknown Data using Submodular Information Measures". Pulished at the
  RealML workshop at **ICML 2022**. (Paper)

- **Shivang Chopra**, Ramit Sawhney, Puneet Mathur, Rajiv Ratn Shah.
  "Hindi-English Hate Speech Detection: Author Profiling, Debiasing, and Practical Perspectives". In the
  proceedings of the AAAI Conference on Artificial Intelligence, **AAAI 2020** (Paper)

- Puneet Mathur, Ramit Sawhney, **Shivang Chopra**, Maitree Leekha and Rajiv Ratn Shah.
  "Utilizing Temporal Psycholinguistic Cues for Suicidal Intent Estimation". In the proceedings of 42nd European
  Conference on IR Research, **ECIR 2020** (Paper)

- **Shivang Chopra***, Gaurav Jain*, Suransh Chopra* and Anil Singh Parihar.
  "Attention-Net: An Ensemble Sketch Recognition Approach using Vector Images". Published in IEEE
  Transactions on Cognitive and Developmental Systems Vol. 14, March 2022 (Paper)