

Omkar Joshi - Resume

703-789-6258 | ojjoshi@ncsu.edu | [linkedin.com/in/omkar-joshi-6b4709148](https://www.linkedin.com/in/omkar-joshi-6b4709148) | University of Michigan, PhD in CS

EDUCATION

North Carolina State University

Raleigh, NC

Masters in Computer Science

Aug. 2023 – May 2025

- Cumulative GPA: 4.0/4.0
- Relevant Coursework: Artificial Intelligence, Natural Language Processing, Social Computing and Decentralized AI, LLMs in Security, Controllable AI

COEP Tech

Pune, India

Bachelor of Technology in Computer Science, Minor in Financial Engineering

Aug. 2016 – May 2020

- Cumulative GPA: 8.65/10.0
- Undergraduate Thesis: Modelling Option Pricing using Local Volatility Model

EXPERIENCE AND PROJECTS

Full Stack Developer, Equities Tech

June 2020 – July 2022

Credit Suisse Services AG

Pune, India

- Designed, developed and deployed a new service to integrate Stock Borrow Agreement data into existing database architecture post new financial legislation being passed in Hong Kong in 2021.
- Developed a modern UI for an internal tool to replace EquiLend NGT.
- Migrated internal dashboards from AngularJS to Angular6.
- Migrated 200+ active, interdependent jobs to new servers using Control-M.

PUBLICATIONS

ArgAnalysis35K - A Large Scale Dataset for Argument Quality Analysis

ACL 2023

Omkar Joshi, Priya Pitre*, Dr. Y.V. Haribhakta*

Toronto, ON, Canada

A Proposal for a Parliamentary Debating System

NeurIPS-HiLL 2022,

Priya Pitre, Omkar Joshi**

New Orleans, LA

JChat: A JATMO-inspired Approach to Prompt Injection Detection

ARR December 2024

Omkar Joshi, David Root*, Collin Lynch*

Under Review

REVIEWING EXPERIENCE

EMNLP, AACL

RESEARCH PROJECTS

Phishing and LLMs

August 2024 – present

- Advised by Dr. Alexandros Kapravelos, North Carolina State University.
- Investigating the use of LLMs to generate code for phishing pages.

LLM based Debate Feedback Generation

November 2023 – present

- Advised by Dr. Henning Wachsmuth, Leibniz University.
- Used argument summarization and few-shot learning to tune GPT4 to perform debate quality analysis.
- Applied a multi-stage, multiagent approach to the problem of determining winners and providing targeted feedback.
- Preliminary results indicate 70% of participants in trial debate like the system's feedback compared to 42.3% for human judges.

Argumentation based Link Prediction using LLMs

August 2024 – December 2024

- As part of Social Computing and DAI Fall 2024.
- Investigated the impact of argumentative features to the task of user link prediction on Twitter/X.

TECHNICAL SKILLS

Languages: Python, C/C++, Java, SQL (MySQL), JavaScript, HTML/CSS, R

Frameworks: Angular, Node.js, PyTorch, TensorFlow, Keras

Research Interests: LLMs, Argumentation, Computational Social Science, Controllable AI