

Omkar Joshi - Resume

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EDUCATION

North Carolina State University

PhD in Computer Science

Raleigh, NC

August 2025 –

- Advised by Dr. Munindar Singh

North Carolina State University

Masters in Computer Science

Raleigh, NC

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

Bachelor of Technology in Computer Science, Minor in Financial Engineering

Pune, India

Aug. 2016 – May 2020

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

EXPERIENCE

Full Stack Developer, Equities Tech

Credit Suisse Services AG

June 2020 – July 2022

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 AND SERVICE

ArgAnalysis35K - A Large Scale Dataset for Argument Quality Analysis

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

ACL 2023

Toronto, ON, Canada

A Proposal for a Parliamentary Debating System

Priya Pitre, Omkar Joshi**

NeurIPS-HiLL 2022,

New Orleans, LA

Reviewer

EMNLP 2022, AAAI 2023

RESEARCH PROJECTS

LLM-based Multiagent Protocols

May 2025 –

- Advised by Dr. Munindar Singh, NCSU and Dr. Amit Chopra, Lancaster University
- Investigating the improvements in efficiency that AI-enabled multiagent protocols provide compared to a rules-based approach.

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.

TECHNICAL SKILLS

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

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

Research Interests: Multiagent Systems, Protocols, LLMs, Argumentation