

# Omkar Joshi - Resume

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## EDUCATION

<b>North Carolina State University</b>	Raleigh, NC
<i>PhD in Computer Science</i>	<i>August 2025 –</i>
• Advised by Dr. Munindar Singh	
<b>North Carolina State University</b>	Raleigh, NC
<i>Masters in Computer Science</i>	<i>Aug. 2023 – May 2025</i>
• Cumulative GPA: 4.0/4.0	
• Relevant Coursework: Artificial Intelligence, Natural Language Processing, Social Computing and Decentralized AI, LLMs in Security, Controllable AI	
<b>COEP Tech</b>	Pune, India
<i>Bachelor of Technology in Computer Science, Minor in Financial Engineering</i>	<i>Aug. 2016 – May 2020</i>
• Cumulative GPA: 8.65/10.0	
• Undergraduate Thesis: Modelling Option Pricing using Local Volatility Model	

## EXPERIENCE

<b>Full Stack Developer, Equities Tech</b>	June 2020 – July 2022
<i>Credit Suisse Services AG</i>	<i>Pune, India</i>
• 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

<b>ArgAnalysis35K - A Large Scale Dataset for Argument Quality Analysis</b>	ACL 2023
<i>Omkar Joshi*, Priya Pitre*, Dr. Y.V. Haribhakta</i>	<i>Toronto, ON, Canada</i>
<b>A Proposal for a Parliamentary Debating System</b>	NeurIPS-HiLL 2022,
<i>Priya Pitre*, Omkar Joshi*</i>	<i>New Orleans, LA</i>
<b>Reviewer</b>	EMNLP 2022, AAAI 2023

## RESEARCH PROJECTS

<b>LLM-based Multiagent Protocols</b>	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.	
<b>LLM-based Debate Feedback Generation</b>	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