ROHAN MISHRA

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EDUCATION

University of California, San Diego — San Diego
Masters in Computer Science — 2022-2023

Delhi Technological University — New Delhi
Bachelors in Technology, Software Engineering — 2015-2019

WORK EXPERIENCE

Taktile

Senior Software Engineer — New York | Jan 2024 - Present

- Led a project to reduce AWS Aurora storage costs, achieving upto 80% reduction in storage costs.
- Lead a project to perform batch processing increasing throughput by an order of magnitude.
- Chaired Backend Chapter, organizing technical talks. Conducted interviews and owned multiple team rituals.

Software Engineer — Berlin | Sep 2021 - Aug 2022

- Optimised servers used for ML Inference to reduce memory usage by up to 85%.
- Led a pilot with a customer by designing and implementing PoC, eventually onboarding them and increasing the ARR by 35%.
- Designed and implemented an OAuth authentication and RBAC-based authorization service.

Adobe

Machine Learning Engineer Intern — San Jose | Jun 2023 - Sep 2023

- Developed a Related Query Suggestions component for multiple Adobe Products using Probabilistic Models and Knowledge Graphs
- Designed an offline evaluation protocol for comparing Query Suggestion models to reflect business OKRs
- Improved null result reduction by 60% and query suggestion diversity by 30% compared to the competitive baseline while maintaining a latency bound

Citi

Software Engineer — Pune | Aug 2019 - Aug 2021

- Designed and developed an internal Machine Learning platform and set up inference pipelines for problems related to Trade Settlement Analysis and Counterparty Risk Anomaly Detection.
- Designed developed and deployed a product for optimizing the cash and stock reconciliation process for Securities Business, reducing the turnaround time by an order of magnitude.
- Developed pipelines and evaluated models for MIM Analysis Tool: a predictive analytics tool to ascertain possible causes for Major Incidents.

Summer Analyst — Pune | May 2018 - Jul 2018

- Developed an automation framework to track changes made in production servers generating weekly reports.

MIDAS Lab, IIIT-Delhi | *Undergraduate Researcher* — New Delhi | Oct 2018 - Jul 2019

- Worked under **Dr. Rajiv Ratn Shah** on Social Media analysis related to varied tasks.
- Collaborated with **Bloomberg Research** on a project related to Suicide Ideation Detection.

PUBLICATIONS

#suicidal-A Multipronged Approach to Identify and Explore Suicidal Ideation in Twitter
Pradyumn Sinha, Rohan Mishra, Ramit Sawhney, Debanjan Mahata, Rajiv Ratn Shah and Huan Liu. (Accepted at **CIKM '19**)

Cascading Author Profiling and Social Network Graphs for Suicide Ideation Detection on Social Media
Rohan Mishra, Pradyumn Prakhar Sinha, Ramit Sawhney, Debanjan Mahata, Puneet Mathur and Rajiv Ratn Shah. (Accepted at **NAACL-SRW '19**)

Investigating Political Herd Mentality: A Community Sentiment based Approach
Anjali Bhavan, Rohan Mishra, Pradyumna Prakhar Sinha, Ramit Sawhney, and Rajiv Ratn Shah (Accepted at **ACL-SRW '19**)