

# DIYA SARAF

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## EDUCATION

### University of Southern California

August 2024-May 2026

#### Masters of Science in Computer Science

- Database System, Information Retrieval

### Santa Clara University

September 2020-June 2024

#### Bachelors of Science in Computer Science and Engineering and Minor in Maths

- GPA : 3.98/4.0
- Algorithm Design, Big Data, Database Applications, Server Monitoring, Operations Management

## PROFESSIONAL EXPERIENCE

### Software Engineering Intern, CI/CD Team

June 2024-August 2024

Dell Technologies, Santa Clara, CA

- Developed an Artificial Intelligence - driven auto-triage system to categorize errors in Jenkins jobs, enhancing error tracking and resolution efficiency
- Automated testing processes by creating scripts and leveraging testing frameworks, reduced manual testing by 4% and speeding up overall testing cycle
- Conducted regression testing post-code changes to ensure new features maintained integrity of existing functionality and client relations

### Clare Luce Boothe Research Intern

June 2022-August 2024

Trustworthy Computing Lab-Santa Clara University, Santa Clara, CA

- Developed advanced machine learning models to detect misinformation and trolling on Twitter, achieving 10% accuracy improvement over baseline methods
- Led a cross-disciplinary team in preprocessing extensive Twitter datasets using data mining, curating features distinguish trolling and misinformation content, contributing to nuanced detection outcomes
- Presented impactful research findings at academic conferences, demonstrating ethical considerations and advocating for responsible use of artificial intelligence in combating online misinformation

### Software Engineering Intern, Encryption Team

June 2023-September 2023

Dell Technologies, Santa Clara, CA

- Accomplished optimization techniques, resulting in a 10% performance improvement in efficiency and speed of key managers
- Created a testing framework for changes made, constructed three tests to test and comply services requested by HashiCorp client
- Designed a Unit test component to wrap external key-manager and improvise security and privacy of users

## ACADEMIC PROJECTS

### IEEE Conference Paper

January 2024-August 2024

- Published research in 2024 IEEE on impact of emoji usage on user engagement with trolling content in online platforms
- Utilized Random Forest regression and t-tests to provide insights for improving online moderation and content strategies

### Conference Paper

February 2023-June 2023

- Published a paper on Deep Fake detection using machine learning was accepted in annual IEEE conference

## AWARDS & LEADERSHIP

January 2022-May 2024

- Clare Boothe Luce Scholarship (2022-Present) - awarded \$12,000 grant towards research for women in STEM
- Dean's List (2021-2024)- Awarded to students in top 10 % of the Engineering School
- Placed 4th in district and 6th in india in the National Maths Olympiad 2019- 2020 (India)
- Inducted into Tau Beta Pi Engineering Honor Society for academic excellence and exemplary character
- Honored with membership in Alpha Sigma Nu Jesuit Honor Society for distinguished scholarship, loyalty, and service

## ADDITIONAL INFORMATION

Programming Languages :MATLAB, HTML, Java, C, C++ Python, Agile and AWS

Additional Experience:Grader, Tutor and Teaching Assistant for Calculus and Physics Classes