

# Kavya Parikh

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## EDUCATION

### Master of Computer Science

Arizona State University (ASU), Tempe, AZ

Aug 2023 - (Expected) May 2025

GPA : 3.89/4

**Coursework:** Software Security, Data Visualization, Data Mining, Statistical Machine Learning, Knowledge Representation

### B. Tech (Honors) in Information and Communication Tech. with minor in Computational Science

Aug 2019 – May 2023

Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), Gandhinagar, India

**Coursework:** High performance Computing, Software Engineering, Computer Architecture, Big Data Systems, Computational Finance, Data Structures and Algorithms, Object Oriented programming, Computer Networks, Cloud Computing, Operating System

## TECHNICAL SKILLS

**Programming Languages:** C++, Java, Python, C, SQL, Typescript, JavaScript, MATLAB

**Databases/Tools:** MySQL, PostgreSQL, Microsoft SQL Server, Neo4J, MongoDB, RESTful APIs, HTML, CSS, Android Studio, AWS, Docker, Kubernetes, PowerBI, Tableau, Swagger, Firebase, Postman, AKS, Google cloud, D3, jQuery, JUnit

**Frameworks/Libraries:** ReactJS, Django, Spring Boot, Bootstrap, NumPy, Pandas, Matplotlib, TensorFlow, Keras

**Other Skills:** Agile, Scrum, UNIX, GIT, CI/CD, Kanban, Linux, BitBucket

## EXPERIENCE

### Morgan Stanley, Bangalore, India: Technology Analyst

Jan 2023 – July 2023

- Migrated the mainframe real time account balancing system to a distributed system of records (SOR) handling 8M+ daily requests
- Configured Green rail and tested Kafka Topics for Open Orders, Loans, Liquidity, etc. thus enabling seamless Blue/Green deployment on Kubernetes through the orchestration of Docker containers.
- Developed a Spring Boot based MS SQL database comparator between for 540k+ data points ensuring data accuracy
- Designed data-driven PowerBI solutions using DAX for a prod parallel comparator, enhancing client-centric data visualization.

### Morgan Stanley, Mumbai, India: Technology Analyst

May 2022 – Aug 2022

- Enhanced the user interface of a React-based batch monitoring dashboard providing real-time insights on failed, delayed, and pending business jobs for the Digital Business Automation team boosting user growth and engagement by 45%.
- Automated path execution for 120k+ daily batch jobs in Neo4j Graph database using Cypher queries and RESTful APIs, saving 12-15 man-hours daily focusing on full stack development.

### DA-IICT, Gandhinagar, India: Software Development Researcher

Aug 2022 – Dec 2022

- Implemented both serial and parallel versions of the PageRank algorithm, optimizing performance and ensuring scalability.
- Optimized the PageRank algorithm using OpenMP in C++, achieving a 76% increase in throughput on shared GPU-based memory architecture through multithreaded concurrent programming.
- Analyzed load balancing, cache misses, and profiling with varying thread counts and scheduling policies across two datasets to develop scalable product features.

## RELEVANT PROJECTS

### Kronos Incident Visualization: VAST 2021 Mini challenge 1

Jan 2024 – May 2024

- Devised diverse visualizations including network-link model, circular network chart, steam graph, and bee swarm chart using D3.js to communicate key metrics like sentiment analysis, bias in news sources and data characterization.
- Pre-processed the textual dataset to calculate the relationships between organizations and bias in news articles.

### Fake Reviews Detection

Sep 2021 – Dec 2021

- Achieved 94.83% accuracy with fine-tuned BERT in a comprehensive comparison of machine learning and deep learning algorithms, including XGBoost, SVM, Gaussian Naïve Bayes, and Logistic Regression developing robust extraction.
- Created data visualizations with matplotlib to illustrate key patterns, sentiment distributions, and performance metrics.

### Vaccination Data Management System

July 2021 - Dec 2021

- Led the design and development of a centralized vaccine management database system for patient, hospital, and inventory data in mass vaccination coordination.
- Created an ER model, implemented triggers, and translated it into a relational schema in SQL.

## EXTRACURRICULAR EXPERIENCE

### Admission Officer, Arizona State University

Jan 2024 – May 2024

- Leveraged Salesforce and PeopleSoft for FERPA-compliant inquiries, guiding application processes via Parchment and AppX.

### Microsoft Student Technical Club, Core Member

Sept 2021 – Jan 2023

- Collaborated with 32 organizers to orchestrate and guide the Cicada 3301 Hackathon, engaging a massive turnout of 900+ participants. Winner turned mentor of Winter of Code, guiding 275+ participants in Django and React domains.

### DAIICT Center for Entrepreneurship and Incubation (DCEI), Event Coordinator

Mar 2021 – Nov 2022

- Led organization efforts for 'Sellout-Finance' as part of the I. Fest technical festival with over 350+ participants.