

# Kaveya Sivaprakasam

+1 619-877-4937 | [sivakaveya1@gmail.com](mailto:sivakaveya1@gmail.com) | [sivakaveya.com](http://sivakaveya.com) | [github.com/sivakaveya](https://github.com/sivakaveya) | [linkedin.com/in/sivakaveya](https://linkedin.com/in/sivakaveya)

## Education

<b>University of California, San Diego</b> Master of Science in Data Science • <b>CGPA:</b> 4.0/4	<i>San Diego, CA</i> 2023 – 2025 (Expected)
<b>Indian Institute of Technology, Madras</b> Bachelor of Science in Data Science • <b>CGPA:</b> 8.8/10	<i>Chennai, TN</i> 2021 – 2025 (Expected)
<b>University of Mumbai</b> Bachelor of Engineering in Computer Science • <b>CGPA:</b> 9.95/10 • <b>Courses:</b> Management of Information System, Finance Management, Social Media Analytic	<i>Mumbai, MH</i> 2019 – 2023

## Skills

<b>Programming</b>	SQL (PostgreSQL, MySQL, SQLite), R, Python, NoSQL (MongoDB), GraphQL (Cypher), Java (Swing), C, HTML/CSS, JavaScript (Bash)
<b>Developer Tools</b>	Tableau, Power BI, Neo4j, Microsoft Office, Databricks, AWS, Git, VS Code, Firebase, Netlify, Linux, Overleaf (Latex)
<b>Frameworks and Libraries</b>	NumPy, Matplotlib, Pandas, Redis, Flask, REST API, Flutter, Node.js, PyTorch, OpenCV, Vue.js, React

## Projects

<b>Data Science Community Analysis on Reddit</b> University of California, San Diego • Spearheaded a multifaceted data analysis project, integrating diverse data types (Relational, Graph, JSON) from Kaggle and Reddit to uncover trends in data science subreddits. • Utilized a combination of PostgreSQL, Cypher and MongoDB queries within a Docker container environment, enabling efficient cross-database data processing and analysis. • Achieved insightful conclusions regarding subreddit growth patterns, user engagement, and content dynamics, showcasing the interconnectivity and evolution of online data science communities. • <b>Technical Skills:</b> SQL, Neo4j GraphQL, NoSQL	<i>San Diego, CA</i> Dec 2023
<b>Music Genre Classification</b> University of Mumbai • Engineered a specialized audio analysis platform utilizing Librosa library, focusing on frequency analysis across various music genres to generate a comprehensive dataset for model training. • Developed and meticulously optimized several machine learning models, achieving a breakthrough in accuracy by hyperparameter tuning of the K-Nearest Neighbors (KNN) classification method. • Architected a dynamic user interface using Python Flask framework, designed to offer an interactive and efficient experience for users engaging with the machine learning model. • <b>Technical Skills:</b> NumPy, Pandas, Matplotlib, and Scikit-Learn for data manipulation, visualization, and model training, Librosa, Flask	<i>Mumbai, MH</i> Apr 2023
<b>Phoenix- Event Management System - Winner of SIH</b> Smart Indian Hackathon 2022 • Spearheaded the development of 'Phoenix', a cutting-edge digital platform for event management, clinching first place at the prestigious 36-hour hackathon organized by the Government of India. • Devised an intuitive organizer dashboard with advanced reporting capabilities, offering in-depth insights into demographics, participant feedback, and event analytics. • Innovated a participant-focused system with personalized enrollment, suggestions, and notifications, enhancing user experience in academic event participation. • <b>Technical Skills:</b> Flask, BeautifulSoup (Web scraper), SQLite, front end, SHA 256, mailing, chart.js	<i>Visakhapatnam, AP</i> Aug 2022
<b>Flowers and Petals</b> Indian Institute of Technology, Madras • Orchestrated a comprehensive data collection and analysis project over a three-month period at a wholesale flower shop. • Applied advanced analytical techniques on transactional and billing data to unearth key business insights, identifying customer buying patterns, preferences, and seasonal sales trends. • <b>Technical Skills:</b> Excel	<i>Chennai, TN</i> Dec 2021

## Resume Tracking System

Mumbai, MH

University of Mumbai, Mumbai

Dec 2020

- Customized system for a company to collect the resumes of applicants and also smart enough to present good resumes based on the job description
- **Technical Skills:** Core Java, Swing package for frontend

## Work Experience

---

### University of California, San Diego

San Diego, CA

Teaching Assistant : Intro to Data Management

Jan 2024 - Current

- Facilitate weekly discussion lectures for the undergraduate course, synthesizing key concepts and reinforcing learning from the week's lectures.
- Conduct office hours, providing individualized support and clarifying doubts for a class of 150 students, enhancing their understanding and academic success.
- Managed meticulous academic records, including attendance and assignments, ensuring accurate academic assessment.

### Vidyalankar Polytechnic

Mumbai, MH

Teaching Assistant : C Programming Language

Mar 2023 - May 2023

- Facilitated extensive practical sessions in C programming, delivering over 120 hrs of instruction to a student body of 180 across multiple batches.
- Provided personalized academic support, catering to individual learning needs for the students.
- Managed meticulous academic records, including attendance and assignments, ensuring accurate academic assessment.

### Animus IT Management

Mumbai, MH

Software Development Intern

Oct 2021 - Jan 2022

- Engaged in an intensive learning experience with expert mentoring in React JS, Next JS, PWAs, and API development.
- Developed a real-time weather application using React JS, enhancing it to a Progressive Web Application for optimal cross-platform functionality.
- Created a web application to display live COVID-19 statistics with interactive data visualization, enhancing user understanding of the pandemic's trends.

## Volunteering and Leadership

---

### Computer Society of India (CSI-VIT)

Mumbai, MH

General Secretary

Aug 2021 - Jul 2022

- Managed the CSI team of 47 members, conducted 12 successful events and also streamlined collaborative events with GitHub, Spark AR, CyberFrat.