

Aditi Agrawal

✉ aditi.agrawal2112@gmail.com

🐙 github.com/Aditii2112

in [linkedin.com/in/aditiagrawal21](https://www.linkedin.com/in/aditiagrawal21)

EDUCATION

Master's in Computer Science

University of California, Davis, USA | CGPA: 3.9/4.0

Davis, CA
Sept 2024 - March 2026

Bachelor of Technology in Computer Science and Engineering

MIT-WPU, India | CGPA: 9.21/10.0

Pune, India

2020-2024

BS in Data Science and its Application

IIT-Madras, India | CGPA: 8.08/10.0 | Project CGPA: 9.25/10.0

Madras, India

2021-2024

PROFESSIONAL EXPERIENCE

Speech Neuroengineering and Cybernetics Lab | *Research Assistant*

April 2025 – Present

- Collaborated with Meta's Ethical Neurotechnology program to develop durable and equitable machine learning models for wrist EMG gesture decoding on a demographically diverse dataset.
- Performed data analysis and feature extraction of surface EMG signals to investigate the impact of age, BMI, and physiological conditions on model performance and algorithm fairness.
- Created and compared gesture recognition models with an emphasis on tuning for accuracy and inclusivity across user groups.

UC-Davis - Graduate School of Management | *Graduate Teaching Assistant*

Jan 2025 – June 2025

- Applications Domains** : Assisted with exploring high-impact analytics applications across domains such as social network analytics, healthcare analytics, IoT, supply chain analytics, and marketing analytics. Supported students in understanding advanced analytics concepts and real-world applications..
- Technology Management**: Facilitated weekly discussion sessions for 150+ students to provide insights into managing firms in high-tech industries. Improved course efficiency by 20% through data-driven analysis of student performance trends.

Globeminds Pvt Ltd, Pune, India | *Intern Developer*

Jan 2023 – Dec 2023

- Increased operational efficiency by 30% through data analysis and process optimization. Gathered and translated user requirements into technical specifications, resulting in a 25% reduction in development time.
- Collaborated with design and engineering teams to deliver user-centric solutions, improving user retention by 20%.

ACADEMIC PROJECTS

Grocery Store App

- API built with Flask (Python), Vue.js; SQLite for database, Redis for caching, Celery for batch jobs.
- Designed and implemented user signup and login functionalities, including a required admin login and store manager RBAC methodology leading to an enhanced engaging experience of 40% increase in users' activity and 20% fewer unauthorized logins.

Business Data Management

- Optimized inventory and capital investment for a business, reducing costs by 20% through data collection, cleaning, and analysis. Presented findings and recommendations to stakeholders, resulting in the adoption of 3 key strategies that improved overall business efficiency by 15%

RESEARCH PAPER/PUBLICATIONS

Food Waste Management with Community Collaboration | DOI

May 2023

- Developed with MySQL, Apache; Frontend: HTML, JavaScript; | International Journal of Research and Analytical Reviews (IJRAR).

SKILLS

Programming Languages: Python, JavaScript, TypeScript, HTML, CSS

Frameworks and Tools: ReactJS, Vue.js, Node.js, Express.js, Flask, SQLite, Docker, Kubernetes, Google Analytics

Machine Learning: Pytorch, Tensorflow, Pandas, scikit-learn, Numpy, Seaborn, Matplotlib, Pandas

Development Tools: MS Office, Git/GitHub, Jira, Tableau, Power BI, Figma

Concepts: Software Engineering, Agile Methodology, Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems, User Research, Product Strategy, Roadmapping, User Stories, Competitive Analysis

CERTIFICATIONS

McKinsey Forward Program | McKinsey & Company **Certificate**

July 2025

Data Science for Business | Harvard Business School Online **Certificate**

July 2025