

Jyotsana Parkhedkar

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GitHub Link | Portfolio Link | LinkedIn Link

Education

University at Albany, SUNY, Albany, NY

Aug 2024 – May 2026

M.S. in Computer Science (Specialization: Artificial Intelligence & Machine Learning)

GPA: 3.02/4.0

Relevant Coursework: Software Engineering, Machine Learning, AI, OS

University of Mumbai

Jul 2020 – May 2024

B.E. in AI & Data Science (Silver Medalist)

GPA: 3.63/4.0

Skills

Languages & Frameworks Python, Java, C/C++, HTML, CSS, JavaScript, React, TensorFlow, PyTorch

Cloud Platforms: AWS, Microsoft Azure, Google Cloud Platform (GCP)

DevOps & Tools: Docker, Jenkins, Git, CI/CD, IntelliJ, VS Code, JIRA, Postman, Agile, Selenium, JUnit

Databases: MySQL, MongoDB

Professional Experience

RISE Summer Program, Intern, Albany, USA

May 2025 – Present

University at Albany, Research Project under Dr. Zhang

- Spearheaded business efforts for an RNA sequencing project, conducting 21+ customer interviews to refine strategy and investor outreach.
- Independently developed a responsive website to boost brand presence and support early user acquisition for the biotech venture.

IBM, Data Analyst Intern, Mumbai, India

May 2023 – July 2023

- Developed data visualizations and performed statistical analysis using Python & R increasing actionable insights by 15%.
- Created interactive dashboards with Excel and PowerBI, enhancing decision-making efficiency by 20%.
- Built a predictive maintenance model with 70% accuracy, contributing to a 10% reduction in operational downtime.
- Automated data cleaning processes in Python, improving workflow efficiency by 25% and minimizing human error.
- Collaborated with cross-functional teams to streamline workflows and strengthen data-driven strategies.

InfoBay, Web Developer Intern, Mumbai, India

Nov 2022 – Jan 2023

- Revamped website UX and optimized performance, resulting in a 30% boost in load efficiency and a 15% increase in user engagement.
- Integrated social media functionalities to enhance connectivity and drive a 20% increase in site traffic.
- Led the end-to-end design and deployment of a portfolio website for a social media influencer, increasing client inquiries by 25%.

Academic Projects

Prototype Creator for Web Developers (Web Development)

Aug 2024 – Dec 2024

- Developed a web prototyping tool using LLM APIs, reducing manual design effort by 40% and generating real-time, device-optimized prototypes.
- Led Agile ceremonies and implemented robust API communication, boosting team productivity by 30% and ensuring scalable, client-aligned outputs.

Sign Language Recognition (Assistive Technology, AI and ML)

Aug 2023 – Apr 2024

- Developed a machine learning model with 80% accuracy to translate sign language, enhancing accessibility and bridging communication gaps for specially-abled users.
- Designed a Human-Computer Interface (HCI) system to convert audio to sign language and provide textual meanings, improving communication for diverse user needs.

Achievements

- **University Silver Medalist and Overall Topper**, recognized as the all-rounder of the AI & Data Science Department across all 4 years.
- **Treasurer, Computer Society of India (CSI)**, University of Mumbai *Jul 2023 – May 2024*
- **Research Publications:**
 - *Sign Language Recognition* — focused on assistive technology using AI and ML. [View Paper]
 - *New Age E-Voucher Application for P2P Consumption* — proposed a secure and scalable digital voucher system. [View Paper]