

# ANISHA JADHAV

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## PROFESSIONAL SUMMARY

Dynamic applied AI/ML researcher and data analyst with experience in machine learning, deep learning, data engineering, and fullstack software development. Published author with multiple IEEE-indexed papers and ongoing journal submissions in areas including neural architectures, transfer learning, medical imaging, and LLM-driven automation. Skilled in building scalable data pipelines, developing predictive models, optimizing SQL and ETL workflows and implementing cloud-based automation. Committed to advancing graduate-level research in machine learning, intelligent systems, and applied computer science.

## EDUCATION

### California State University, Monterey Bay

*Bachelor of Science in Computer Science* | Dual concentration: Data Science, Software Engineering

Aug 2021 - May 2023

California, USA

- GPA: 3.89 / 4.00
- Graduation Honors: Magna Cum Laude, Gold Honor Cords
- Dean's List: Fall 2021, Fall 2022
- International Transfer Student in Junior Year - Fall 2021

**Relevant Coursework:** Intro to Data Science, Advanced Machine Learning, Data Structures & Algorithms, Software Design, Software Engineering, Computer Architecture, Python Programming, DBMS, Computer Networks, Multimedia Design

### Scholarships and Awards:

- CSUMB - Monterey Rotary Club Educational Scholarship 2023
- Honored with an Art Award at the CSUMB President's Investiture Ceremony, with artwork permanently displayed in the University Administration Building.
- Represented university at ICPC PacNW Div. 2 Regional Contest 2022
- Nominated by 5+ CSUMB faculty for the President's and Provost's Award for Exemplary Student Achievement and recognized by the CSUMB President at graduation ceremony as one of only three international students honored for excellence in academics, leadership, arts, community service, and programming.
- Selected as one of the top scholars from 1,000+ students across all departments for the CSUMB–Rotary Mentor Program, receiving 1:1 mentorship from Dr. Kamath (Dean Emeritus, College of Business) and industry professional Adam Hughes to accelerate academic growth, leadership, and professional development.
- Chosen as a CTI-Accelerate Scholar in a highly competitive statewide program funded by California's \$10M Computing Talent Initiative, working under the mentorship of Dr. Satya Narayan and Dr. Walimuni to strengthen advanced technical foundations through structured training in programming and applied computer science.

### Mumbai University, India

*Bachelor of Science in Computer Science* | Dual concentration: Data Science, Software Engineering

Aug 2019 - July 2021

Mumbai, India

- Transfer GPA: 4.00/ 4.00

**Relevant Coursework:** Core Java, Calculus I, II, Object Oriented Programming, Discrete Mathematics, Web Programming, Computer Oriented Statistical, Graphics Programming, Intro to Embedded Systems, Digital Electronics, Operating Systems

## RESEARCH AND PUBLICATIONS

### Published Research Conference Papers:

1. **A. A. Jadhav**, "Evaluation of Transfer Learning for Visual Multiple Target Tracking," 2025 First International Conference on Advances in Computer Science, Electrical, Electronics, and Communication Technologies (**CE2CT**), Bhimtal, Nainital, India, 2025, pp. 144-150, doi: 10.1109/CE2CT64011.2025.10939327. | [\(Paper Link\)](#)
2. **A. A. Jadhav** and P. S. Pisel, "Harnessing Kernel Tricks for Nonlinear Problem Solving: SVM Applications," 2025 5th International Conference on Innovative Research in Applied Science, Engineering and Technology (**IRASET**), Fez, Morocco, 2025, pp. 1-7, doi: 10.1109/IRASET64571.2025.11007960. | [\(Paper Link\)](#)
3. **A. A. Jadhav**, J. Kishore, B. P. Joshi and S. Goyal, "Classification of Traffic Pattern and Estimation of Traffic Speed Using Recurrent Neural Network in Smart Cities," 2025 2nd International Conference On Multidisciplinary Research and Innovations in Engineering (**MRIE**), Gurugram, India, 2025, pp. 710-715, doi: 10.1109/MRIE66930.2025.11156248. | [\(Paper Link\)](#)

4. S. Kumar, **A.A. Jadhav**, R. Kumar, Kaushal, Dr. R.B. Babu, "Deep Learning-driven Fault Detection in EV Powertrain Components." 2025 2nd International Conference on New Frontiers in Communication, Automation, Management and Security (ICCAMSS), Bangalore, India, 2025, pp. 1-7, doi: 10.1109/ICCAMSS65118.2025.11234544. | [\(Paper Link\)](#)

#### Conference Papers Already Presented, Articles Under Progress for Publication by Conference Team:

5. **A.A. Jadhav**, "AI-Enhanced Pediatric Pneumonia Classification." 2nd International Conference on Artificial Intelligence, Machine Learning & Intelligent Systems (ICAMS 2025), NIT Hamirpur, Himachal Pradesh, India, 2025
6. P.S. Pisel, N.Gupta, R.R. Ambavaram, **A.A. Jadhav**, P.K.R. Mahendran, "CodeProphet: A Predictive LLM Based Framework for Proactive Software Development Planning." IEEE 3rd International Conference on Artificial Intelligence, Blockchain, and Internet of Things (AIBThings 2025), Mount Pleasant, Michigan, USA, 2025
7. **A.A. Jadhav**, C. Puligundla, S.R. Chigurupati, P. Jalan, S. Bhogavalli, "SPX: A Novel LLM-Based Framework for Explaining and Estimating User Story Points." IEEE 3rd International Conference on Artificial Intelligence, Blockchain, and Internet of Things (AIBThings 2025), Mount Pleasant, Michigan, USA, 2025
8. **A.A. Jadhav**, J. Kishore, Dr. B.P. Joshi, S.Goyal, "Fault diagnosis using wavelet based denoising integrated with neural networks: A signal processing informed neural network framework." International Conference on Sustainability, Innovation & Technology (ICSIIT 2025), Nagpur, Maharashtra, India, 2025
9. **A.A. Jadhav**, M.M. Sati et al. "Hill climbing MPPT algorithm with Buck Booster Converter in Solar Power System." International Conference on Information Systems and Computer Networks (ISCON 2025), Mathura, India

#### Research Journal Papers: Currently Under Review:

- P.S. Pisel, **A. A. Jadhav**, "Enhancing Brain Tumor Diagnosis with Ensemble Deep Learning and Optimizer Tuning on MRI Data" – Revision Submitted; Currently Revision Under Review @[Scientific Reports by Springer Nature](#)
- P.S. Pisel, **A. A. Jadhav**, "Experimental Study on Diagnostic Accuracy of Dental X-Ray Investigations Using Deep Learning" – Revision Request; Currently Authors Revising the Manuscript @[IEEE Access](#)
- **A. A. Jadhav**, J. Kishore, Dr. B.P.Joshi, "Design of h-CNN-RNN-ANFIS controller for the detection and classification of heart abnormalities" – Currently Under Review @[Scientific Reports](#)

## RESEARCH INTERNSHIP

### Research Intern | ThinkNeuro Fall 2024 Bibliometrics Research Internship | Remote

Aug 2024 – Dec 2024

- **Bibliometric Research and Trend Mapping:** Conducted large-scale bibliometric analysis of AI-driven neuroprosthetic spinal cord stimulation systems, identifying global research output, emerging computational methodologies, influential authors, and multidisciplinary collaboration patterns.

## PROFESSIONAL SERVICE - PEER REVIEWER, JUDGE

- Reviewed 32 papers for Computational and Experimental Approaches in Communication Technologies (**CE2CT 2025**)
- Reviewed 6 papers for ACM SIGCSE Technical Symposium 2026 (**ACM SIGCSE TS**)
- Reviewed 2 papers for Latinx in AI at the NeurIPS Workshop (**LXAI-NeurIPS 2025**)
- Reviewed 1 paper for Efficient Reasoning at the NeurIPS Workshop (**ER-NeurIPS 2025**)
- Reviewed 1 paper for Interdisciplinary Biomedical Research and Learning Conference (IBRL) at the Responsible Learning Conference (**IBRL @RLC 2025**)
- Reviewed 1 paper for AI for Mathematics (AI4Math) Workshop at the International Conference on Machine Learning (**AI4Math @ICML 2025**)
- Served as Judge for **NASA - GL4HS 2025** Capstone Virtual Symposium, reviewing 10+ high-school student teams research hypothesis presentations, September 2025

## WORK EXPERIENCE

### Finance Data Analyst | Goodwill of Silicon Valley, CA

Dec 2023 - Present

- Led the successful migration of **4K+** datasets comprising millions of records, dashboards and KPIs in **DOMO**, ensuring seamless integration with data sources like Oracle NetSuite, Microsoft Excel, SharePoint, SQL servers and others.
- Automated & resolved complex SQL queries & KPI issues, and conducted data validation enhancing accuracy to **98%**.
- Spearheaded automation initiatives, including a compliance task-tracking system with automated email reminders using Microsoft Power Automate, SharePoint improving task management across **10+** teams by **95%**.
- Analyzed financial/operational data, built strategic plans, and **deployed 100+ real-time interactive KPI dashboards** with dynamic filters, boosting decision-making efficiency by 70%.

- Reduced **39K** data credits to **12K** across all DOMO data instances, and improved data governance by defining and enforcing best practices for data quality, security and compliance reducing inconsistencies in data reports by 30% and ensuring regulatory adherence and assisted with database optimization.
- Presented complex data-driven and actionable insights and analyses to key stakeholders, including Senior Executives.
- Designed & delivered comprehensive training programs and presentations, driving 80% increase in user engagement.

## PROJECTS AND CAPSTONE

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### Power to the People: Lumos | CSUMB Spring 2023 Capstone | Software Development

April 2023

- Designed and developed a user-friendly Android application that connects local communities to share essential resources such as generators, food, and shelter during power outages, promoting resilience and mutual aid.
- Implemented real-time location-based matching and resource status updates, ensuring users could quickly find and offer help, reducing response time in emergencies.

### Face Generation: What's Under the Mask | Python, Google Colab | Machine Learning | [Link](#)

Dec 2022

- Analyzed **200k CelebFace images** and developed new masked image dataset by extracting facial landmark data.
- Implemented **GAN model** using **Deep Learning techniques** for accurate mask object detection and image generation, achieving **90% accuracy** in distinguishing real/fake images. Libraries: **Matplotlib, Seaborn, TensorFlow, Keras**

### Prediction of Bike share users per hour | Python, Google Colab | Data Science | [Link](#)

Dec 2021

- Processed and engineered 17k+ data to predict Capital Bikeshare rentals/hr with 76% accuracy, performing end-to-end preparation, exploration, cleaning, preprocessing, visualization, and model development.
- Identified KNN regression as the best performing model for rental prediction, outperforming alternatives in capturing patterns tied to time and weather severity.

## LEADERSHIP AND INITIATIVES

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### Conference Volunteer Chair - Committee Team Member | ISTAS 2025 IEEE Conference | [Link](#)

Aug 2025 - Sept 2025

- Led a team of 20+ Volunteers, organized training sessions, orientation, created schedules, overseeing registration, schedule plans, session assistance, and on-site logistics. Conference ran smoothly with 0 complaints. Completed 100+ hours of volunteering services.

### IEEE Member | Institute of Electrical and Electronics Engineers (IEEE)

Jan 2025 - Present

- Active Member of IEEE, contributing to following multiple technical committees:
- Participate in discussions, workshops, and initiatives to advance knowledge in robotics, AI, and automation technologies.
- Collaborate with peers and professionals on projects and technical guidance within the IEEE community, also participating in volunteer activities supporting and promoting innovation and community engagement.

### Secretary - Board of Directors | CSUMB Otter Student Union (OSU) Board of Directors

June 2022 - June 2023

- Recorded, organized, and maintained precise board meeting minutes, ensuring clear documentation of all decisions, actions, and discussions for official governance records.
- Coordinated board operations by preparing agendas, managing documentation, and supporting smooth, structured meetings for the Otter Student Union Board of Directors.

### Member | CSUMB Programming Team

Sept 2022 - March 2023

- Selected as the only female member of the CSUMB Programming Team (2022), contributing to structured training, mock contests, and collaborative problem-solving.

### Art Committee Member | CSUMB Otter Student Union (OSU) Board of Directors

June 2022 - June 2023

- Curated events and supported campus-wide art initiatives through planning, coordination, and community engagement.

### Game Development Club Member | CSUMB Game Development Club

June 2022 - June 2023

- Participated in collaborative game development projects; contributed to club events and workshops.

## TECHNICAL AND SOFT SKILLS

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- Data Programming:** MySQL, Python(Pandas, Numpy, Scikit-Learn, Matplotlib, Seaborn, Sklearn), R, PL/SQL
- Software Programming:** Java, HTML/CSS, JavaScript, TypeScript, API, MS Power Automate, Git, GitHub
- Data Science & Machine Learning Skills:** Regressions, GridSearchCV, ETL, Classification, Data Analysis & Visualization, Neural Networks, CNN, RNN, Hyperparameter tuning, KNN, GNN
- Deep Learning:** TensorFlow, Keras, LSTM, GRU, Hybrid and Bi-directional models, NLP, SGD, Adaptive Moment Estimation (Adam), Adamax, Generative Adversarial network Models (GAN)
- Tools and Technologies:** Google Colab, DOMO, Jupyter Notebook, IntelliJ Idea, PostGreSQL, Microsoft Power BI, Spyder, AWS, Microsoft Excel, Word, PowerPoint, Visual Studio Code, MySQL Server, DBVisualizer
- Management Tools:** Microsoft 365 Apps, Microsoft Teams, Jira, Slack, Discord, Trello, Monday, Notion
- Soft Skills:** Problem-Solving, Data-Driven Decision Making, Cross-functional Collaboration, Critical thinking

# VOLUNTEERING AND COMMUNITY ENGAGEMENT EXPERIENCE

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## Technical Volunteering:

### Software Engineer Intern | *CodeDay, CA*

Aug 2023 – Dec 2023

- Contributed to the open source group project of FreeCodeCamp Classroom, supporting a **40k+ users** large community.
- Spearheaded the development and optimization of a teacher profile page with **Next.js**, successfully refactored key files, and achieved a notable **10% enhancement** in user experience through effective collaborative teamwork.

### Software Developer | *Partners for Peace, CA*

Aug 2023 – Dec 2023

- Designed, developed, and deployed key features for the organization's web and mobile platforms, enhancing overall usability and functionality.
- Implemented secure authentication, improved UI navigation, and optimized backend workflows, resulting in faster load times and increased user engagement.

### Computer Science Mentor | *Girl Scouts of California's Central Coast, CA*

Feb 2022 – May 2022

- Conducted hands-on coding workshops, teaching them Python, SQL, and Excel while strengthening STEM foundations and practical problem-solving skills.
- Designed interactive badge workshops, activities, and quizzes, teaching them through engaging, team-based exercises that built confidence in technology.

## Non-Technical Volunteering:

### Arts Supply Distribution and Event Support | *Viva CalleSJ x Local Color 2025*

June 2025

- Managed distribution of craft materials and maintained organized, engaging creative stations for participants.
- Supported event facilitators in community engagement, ensuring a positive and interactive experience for all attendees.

### Event Co-ordinator | *San Francisco Arts Festival 2025*

May 2025

- Assisted with setup, guest guidance, and material distribution for 20–25 attendees, ensuring smooth event operations.
- Supported post-event cleanup and documentation, contributing to overall festival success.

### Fundraising Project Volunteer | *Rotary Club of Monterey*

April 2023

- Assisted in organizing fundraising events by coordinating volunteers, managing logistics, and ensuring smooth execution to support community initiatives.
- Supported outreach and engagement efforts, helping increase participation and maximize donations for the fundraiser.

## TECHNICAL CERTIFICATIONS

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- Supervised Machine Learning: Regression & Classification: Stanford Online, DeepLearning.AI, Coursera | [Link](#) Nov 2025
- Microsoft Certified: Azure Data Scientist Associate | [Link](#) June 2025
- Microsoft Certified: Azure AI Engineer Associate | [Link](#) Feb 2025
- Intermediate iOS Development Course for California State University Monterey Bay
- CodeDay - Applied Software Developer Open Source Contributor
- AWS Machine Learning Foundations
- AWS Machine Learning for Business Challenges
- Google Cloud Certified: Big Data and Machine Learning Fundamentals
- AWS Builders Online Series
- Kaggle: Intro to Machine Learning
- Kaggle: Data Visualization Course

## EXTRA-CURRICULAR AWARDS AND ACHIEVEMENTS

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- Gold Medal, National Floorball Championship (Maharashtra State Team) 2014
- 1st Prize, The Times of India National Drawing Competition (10,000+ contestants) 2016
- Nabar Guruji Award for Art Excellence (ranked 1 among 100,000+ students statewide) 2015
- 1st Rank in Designing, Government of Maharashtra Drawing Grade Examination; State Merit Rank 38 2015
- Government of Maharashtra High School Scholarship (statewide merit exam; 2-year stipend) 2012-13
- Government of Maharashtra Middle School Scholarship (statewide aptitude exam; 2-year stipend) 2009-10
- Best Student + Cash Prize, Higher Secondary State Board Examination (12th) 2017-18
- Best Student + Cash Prize, Secondary School Certificate Examination (10th) 2015-16

*For the full list, please refer to my portfolio website.*