



Shreya Mahajan

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Education

Santa Clara University (Santa Clara, CA) <i>Master of Science in Computer Science and Engineering</i>	Sept 2024 – Present
University of Mumbai <i>BE in Information Technology with Honors in Artificial Intelligence and Machine Learning.</i>	June 2020 – May 2024

Skills

Languages: JavaScript (TypeScript), Python, Java, SQL
Cloud & Infrastructure: AWS (Lambda, API Gateway, DynamoDB, S3, EC2, IAM, CloudWatch), Docker, Kubernetes, REST APIs
AI & Machine Learning: Large Language Models (LLMs), NLP, LangChain, LLM Integration Evaluation, AWS Rekognition
Frameworks & Tools: React, Spring Boot, Flask, Git, GitHub Actions, Linux, PostgreSQL, MySQL

Achievements

Winner – AWS × INRIX × HighView Hackathon (Santa Clara University, ACM)	Oct 2025
○ Studentlytics — AWS × INRIX Hackathon 2025 (1st Place, HighView Prize)	
○ Architected and deployed a real-time, cloud-native serverless platform integrating AWS Lambda, API Gateway, DynamoDB, S3, Step Functions, and Bedrock to automate attendance and engagement tracking, reducing instructor effort by 80% .	
○ Designed, tested, and debugged RESTful APIs and event-driven workflows , resolving authentication (IAM), payload validation, and cross-service integration issues to ensure low-latency, fault-tolerant execution.	
○ Integrated AWS Rekognition for AI-driven visual attendance detection and built a React + TypeScript dashboard to stream real-time insights, implementing monitoring via CloudWatch for reliability.	
○ Documented API flows and architecture decisions to streamline onboarding for collaborators, presenting technical trade-offs and scalability considerations to judges among 254 participants .	

Experience

Graduate Teaching Assistant, Leavey School of Business (Santa Clara University)	Jan 2026 – Present
○ Led review sessions and office hours, translating complex technical concepts into clear explanations for diverse student groups.	
○ Managed grading workflows and processed structured data efficiently, ensuring timely and transparent feedback.	
Graduate Research Assistant, Leavey School of Business (Santa Clara University)	

Graduate Research Assistant, Leavey School of Business (Santa Clara University)	Oct 2025 – Present
○ Built and maintained reproducible data pipelines for large-scale financial datasets, performing structured data collection, dataset matching, and automated validation to ensure accuracy and integrity.	
○ Automated data cleaning, transformation, and regression workflows using Python, STATA, and Excel, reducing manual processing time and improving reporting efficiency.	
○ Diagnosed inconsistencies across multi-source datasets, debugging data mismatches and implementing validation checks to prevent downstream errors in econometric analysis.	

Projects

FitGeek: Modelling ML-Based Recommendation System for Fitness and Wellness	Jan 2024 - Apr 2024
○ Secured the Best Project Award at the Major Project Exhibition, outperforming 30+ project teams through strong collaboration and technical execution.	
○ Created a machine learning–driven recommendation system using content-based filtering and K-Nearest Neighbors (KNN) , delivering personalized workout and diet plans; implemented in Java (OOP) with user data stored in a MySQL database , enabling 10+ new application features .	
○ Built a diabetes prediction model using Support Vector Machines (SVM) , trained on the Kaggle PIMA dataset , achieving 88% accuracy , and developed a Stress Level Detector to support improved healthcare insights.	
Certification	

AWS Certified Solutions Architect – Associate (SAA-C03) — Score: 835/1000	Nov 2025
○ Demonstrated expertise in architecting scalable, event-driven, API-centric cloud systems using AWS services including Lambda, API Gateway, DynamoDB, S3, IAM, and CloudWatch.	
○ Validated knowledge of authentication, distributed system design, high availability, monitoring, and cost optimization for production-ready applications.	
Publications	

FitGeek: Modelling ML-Based Recommendation System for Fitness and Wellness <i>International Conference on Advanced Communication, Energy and Big Data (ICACEBD-24)</i>	March 15–16, 2024
Genetic Disorder Prediction using the K-Nearest Neighbors Algorithm <i>International Journal For Multidisciplinary Research (IJFMR)</i>	
Research Paper ↗	
2023	
Research Paper ↗	