

Shreya Mahajan



Santa Clara, CA | samahajan@scu.edu | +1 (669)-230-9554 | LinkedIn: shreyamahajan2105 | Github

Education

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

Skills

Languages: Python, Java, JavaScript, SQL, C/C++, Swift
Machine Learning & AI: NLP, Deep Learning, Large Language Models, Model Evaluation, Recommender Systems
Libraries and Frameworks: TensorFlow, PyTorch, Keras, Matplotlib, Scikit-learn, Pandas, NumPy, Spring Boot, React
Technologies: AWS (EC2, Lambda, S3, DynamoDB, RDS, API Gateway, IAM, CloudWatch), Docker, Kubernetes, Git, GitHub Actions, Xcode, Cursor AI, Windsurf, Linux, REST APIs, MySQL, PostgreSQL

Experience

Graduate Teaching Assistant, Leavey School of Business (Santa Clara University) Support course operations by managing exam grading workflows, processing Scantron data , and assisting with exam review sessions and office hours, ensuring transparent evaluation and timely communication .	<i>Jan 2026 – Present</i>
Graduate Research Assistant, Leavey School of Business (Santa Clara University) Conduct quantitative data analysis for research in empirical corporate finance , performing hand collection of financial data , dataset matching , and preparation of structured datasets for econometric analysis . Execute regression and statistical analysis using Python, STATA, and Excel to study venture-capital firms transitioning to Registered Investment Advisor (RIA) status, while automating data cleaning, parsing, and report generation to improve efficiency. Document workflows and maintain a clear methodology for data validation and reproducibility.	<i>Oct 2025 – Present</i>

Achievements

Winner – AWS × INRIX × HighView Hackathon (Santa Clara University, ACM) Studentlytics 🏆 — <i>AWS × INRIX Hackathon 2025 (1st Place, HighView Prize)</i> Built a cloud-native, serverless analytics platform for automated attendance and engagement tracking using AWS (Lambda, API Gateway, DynamoDB, S3, Step Functions, Bedrock), reducing instructor effort by up to 80% . Designed RESTful APIs and event-driven workflows to process classroom session data at scale and stream real-time insights to a React + TypeScript dashboard. Integrated AWS Rekognition for AI-driven visual attendance detection and engineered a scalable, fault-tolerant backend under 24-hour hackathon constraints, collaborating with 6 teammates to design, test, and present the solution among 254 participants .	<i>Oct 2025</i>
---	-----------------

Projects

FitGeek: Modelling ML-Based Recommendation System for Fitness and Wellness 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.	<i>Jan 2024 - Apr 2024</i>
---	----------------------------

Certification

AWS Certified Solutions Architect – Associate (SAA-C03) Earned AWS Certified Solutions Architect – Associate credential with a score of 835/1000, demonstrating proficiency in AWS services including EC2, VPC, IAM, Lambda, DynamoDB, S3, API Gateway, CloudWatch, and EventBridge. Validated ability to design architectures, implement high availability, and optimize cloud cost and performance.	<i>Nov 2025</i>
--	-----------------

Publications

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