**Amanda Judy Andrade**

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# Education

**Santa Clara University | Santa Clara, CA| M.S. – Computer Science & Engineering Jun 2024**

**Relevant Courses:** Machine Learning, Project Management, Computer Networks, Distributed Systems, Network Design. **GPA: 3.54/4.0**

**University of Mumbai | Mumbai, IN| Bachelor of Engineering – Computer Science Aug 2021**

**Research:** Emotion Analysis of Students. [https://bit.ly/3Vh0RiS](https://www.ijrar.org/papers/IJRAR21D1380.pdf) **GPA: 3.88/4.00**

# Technical Skills

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| Language | C, C++ (Basic), Java (Basic), Golang (Basic), Python, R (Basic), JavaScript (Basic) |
| ML Frameworks | TensorFlow, Keras, OpenCV, Pandas, |
| Version Control System | Git, GitHub |
| SDLC | Agile, Scrum (<https://bit.ly/3VfXbha>), CI/CD, Gradle |
| Databases | MongoDB, SQL, MySQL, SQLite, NoSQL (Firebase), JDBC |
| Web & Mobile Technologies | HTML5, CSS3, XML, Bootstrap, SASS, Flutter, Dart, Flask, Node.js, React.Js, jQuery, Django, Figma |
| Cloud | Azure (Data Pipelines), AWS (EC2, S3, Athena, Dynamo) |
| Soft Skills | Agile, Six Sigma Yellow Belt in Project Management |

# Professional Experience

**Santa Clara University| Software Engineer Intern | Santa Clara, CA Jun 2023 – Oct 2023**

*Skillsets: PHP, HTML, CSS, JavaScript, Bootstrap, Node.js*

* Collaborated with a team of 2 engineers under the professor’s supervision to develop an e-commerce website for a home-based business by building the admin panel and product list upload.
* Migrated more than 50+ products from Shopify to the website using Stripe payment modules and an online database, which helped in generating revenue on state-level.
* Saved the owner third-party inventory costs through the Stripe module.

**Corizo| Machine Learning Engineer Intern |Mumbai, India May 2022 – Jul 2022**

*Skillsets: Machine Learning, Python 3, Project Management*

* Implemented a machine learning algorithm to streamline music genre classification through spectrograms, resulting in a 30% decrease in response time.
* Contributed with a team of 10 people to fine-tune the parameters and achieve a high accuracy rate of 90.85%.
* Assisted the data science team with building predictive models (fully connected CNNs) for stock price forecasting and music genre classification, resulting in a 44% improvement in accuracy from the previous models.

**The Sparks Foundation| Business Analyst Intern |Mumbai, India Jan 2022 – Feb 2022**

*Skillsets: Python 3, PowerBI*

* Spearheaded the development of data science models using gradient boosting algorithms like LightGBM, XGBoost, Decision Tree, AdaBoost, leading to significant improvements in overall efficiency to 93.43%.
* Utilised TensorFlow to analyse complex datasets related to stocks, creating optimised models and implementing them successfully in 5 days for improved results and increased accuracy.

**Maxgen Technologies Pvt. Ltd.| PHP Web Developer Intern | Mumbai, India** **May 2019 – Jul 2019**

*Skillsets: HTML, CSS, JavaScript, jQuery, PHP, MySQL, and Bootstrap*

* Created an aesthetic and user-friendly website in a team of 5 people for an educational organisation, resulting in a 120% increase in site visits in 1 month period.
* Reduced page load time by 30% in 3 months, cutting down server response time from 500ms to 350ms.
* Increased user engagement by 25% in 3 months through the use of rich transitions achieved through the above tech stack and decreased deployment costs by 20% while improving overall performance metrics.

# Projects

**SWIM Protocol Simulation in Wireless Networks |Tech Skills:** *AWS, Java, Docker, Git* **Apr 2024**

* Assisted in the team of 2 for the implementation and fine-tuning of SWIM Endemic Protocol in wireless systems and launched it in real-time systems using AWS EC2 instance.

**SCU Alumni Connect App |Tech Skills:** *Flutter, Firebase* **Nov 2023**

* Constructed an innovative chat application and implemented secure authentication, resulting in a 50% increase in user engagement during the prototype launch.
* Optimised app functionality by conducting regular user testing and implementing data-driven updates through real-time cloud storage, leading to a 25% decrease in app crashes and a 15% increase in customer satisfaction ratings.
* Leveraged the chats, model, and profile creation within the application, which was only meant for SCU students and alumni to discuss and climb the career ladder.

**Bank App |Tech Skills:** *Flutter, SQLite* **May 2023**

* Developed an innovative banking application through Flutter and SQLite, resulting in a 50% increase in user engagement within the first month of launch.
* Optimized app functionality by conducting regular user testing and implementing data-driven updates, leading to a 25% decrease in app crashes and a 15% increase in customer satisfaction ratings.
* Collaborated with cross-functional teams to integrate new features such as mobile check deposit and account balance tracking, resulting in a 20% increase in daily active users.

**Doctor App |Tech Skills:** *Flutter, SQLite* **Apr 2023**

* Developed a customised categorisation system that enables doctors to be classified based on their profession, area of specialisation, and availability, resulting in a 30% increase in user engagement.
* Implemented an optimised search algorithm that sorts through thousands of doctor profiles within seconds and displays the most relevant results tailored to the user's search criteria. This resulted in a 50% reduction in bounce rates and improved user satisfaction.
* Created secure authentication mechanisms using Flutter and Node.js to protect sensitive medical information, thereby reducing the risk of data breaches by 75%.

[**BERT Transformer Text Classification**](https://github.com/aja512/Fine-Tune-BERT-for-Text-Classification-with-TensorFlow)**| Tech Skills:** *NLP, BERT, TensorFlow*  **Apr 2021**

* Implemented NLP techniques and BERT models to optimise input pipelines, resulting in a 60% increase in data processing speed and accuracy of text classification.
* Fine-tuned BERT models using advanced machine learning algorithms achieved an impressive F1 score of 0.92 on text classification tasks and improved model performance by 25%.
* Controlled TensorFlow API and tf.hub technologies to seamlessly integrate BERT models into production environments, reducing deployment time by 50%.

**Transfer Learning for NLP |Tech Skills:** *TensorFlow, Python, Tensorboard* **Apr 2021**

* + Leveraged pre-trained NLP text embedding models from TensorFlow Hub with tf.keras for text classification, saved training resources and achieved a good model generalization.
  + Built and evaluated multiple models for text classification with TensorFlow, utilized fine-tuning for better results. Used TensorBoard to visualize model performance metrics, to track and improve the model performance, achieving 98% accuracy.

**Emotion Analysis of Students |Tech Skills:** *Python, TensorFlow, Deep Learning* **Feb 2021**

* Managed the fine-tuning of the model parameters in a team of 3, along with the emotion detection amongst 40 classmates during a live lecture .
* Transferred the result data onto the AWS S3 storage, so that the organization’s mental department could evaluate it. Documented a strong research material for the next team to takeover and advance the research.

**Vegito E-Commerce App| Tech Skills:** *Android (Java), Node.Js, SQLite*  **Nov 2020**

* Improved 100+ vendor-customer interaction through optimized and streamlined communication and security process by eliminating the need for third-party apps, resulting in advanced efficiency and cost-effectiveness; introduced OTP authentication for login; improved user experience through UI designing and simple flow process.
* Demonstrated technical proficiency in process optimization and user experience improvement through hands-on implementation of innovative solution.

**Hospital LMS | Tech Skills:** *HTML5, CSS3, jQuery, Bootstrap, JS, PHP, MySQL* **Oct 2019**

* Created a visually stunning and user-friendly website for hospital LMS using HTML5, CSS3, jQuery, Bootstrap and JavaScript for front-end and PHP and MySQL for backend resulting in 120% increase in site visits.
* Developed a comprehensive portal with easy navigation that reduced the need for intermediaries to provide information about the hospital's services leading to a cost reduction of $50K annually.
* Implemented Google Analytics tracking on the website to analyse user behaviour patterns and identified key areas of improvement resulting in an average session duration increase of 20 seconds.

# Miscellaneous

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| **Extra-Curricular** | * Soprano singer for the student college church choir at Santa Clara, CA. * Attended the Showing Up for Racial Justice (SURJ) course during the Fall 2023 quarter. |
| **Undergraduate Awards** | * Rank 6th out of 82 students in the Computer Science degree. * Won 1st prize out of 250 students in the ‘Can you Handle the Pressure?’ contest. |