AMANDA JUDY ANDRADE

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EDUCATION

Santa Clara University | Santa Clara, CA| Master of Science – Computer Science and Engineering   **Jun 2024**
Internship: Website Developer (Inspired Earth) under the mentorship of Professor Navid Shaghaghi.   **GPA: 3.54/4.00**
Apprenticeship: Flutter App Developer under the guidance of Professor Silvia Figueira
Relevant Courses: Algorithms, Operating Systems, Computer Architecture, Product Management, Machine Learning, Project Management, Computer Networks, Distributed Systems, Network Design Analysis.

The University of Mumbai | Mumbai, India | Bachelor of Engineering – Computer Science   **Aug 2021**
Awards: Rank 6th out of 82 students in the Computer Science degree.   **GPA: 3.88/4.00**
     Won 1st prize out of 250 students in the 'Can you Handle the Pressure?' contest
Research: Emotion Analysis of Students. Paper Link

RECENT INTERNSHIP 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.
- Corroborated 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.

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 a visually stunning and user-friendly website in a team of 5 people for an educational organization, 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.

SELECTED ACADEMIC PROJECTS

Gossip Protocol Simulation in Wireless Networks |Tech Skills: AWS, Golang, Python, Docker, Git   **Apr 2024**
- In a team of 2, I was responsible for the implementation and fine-tuning of Endemic Protocol in wireless systems.
- Deployed 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.

BERT Transformer Text Classification| 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%.

Emotion Analysis of Students |Tech Skills: Python, TensorFlow, Deep Learning   **Feb 2021**
- Headlined the fine-tuning the model parameters in a team of 3, along with the detection of emotions amongst 40 classmates during a live lecture.
- Transferred the result data to Amazon S3 data storage so that the organization's mental health section could evaluate it.
- Provided enough research material for the next team to carry out and maintain the project.

TECHNICAL SKILLS

- **Languages:** C, C++ (Basic), Java (Basic), Golang (Basic), Python, R (Basic), JavaScript (Basic).
- **Frameworks:** TensorFlow, PyTorch, Keras, TensorBoard, Git, Figma.
- **Big Data & Cloud Technologies:** Azure, AWS (EC2, S3, Dynamo, Athena).
- **Databases:** MySQL, SQLite, NoSQL (Firebase), JDBC, MongoDB.
- **Web & Mobile Technologies:** jQuery, HTML, CSS, XML, React.js, Bootstrap, SASS, Flutter, Dart, Node.js, Flask, Django.
- **Soft Skills:** Six Sigma Yellow Belt in Project Management, Agile, Scrum.