

# SHIVANI GOWDA

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## EXPERIENCE

### PIXSTORY - Machine Learning Engineer

Remote (Aug 2023 – Present)

- Spearheaded the development of a data pre-processing pipeline for Pixstory's Retrieval Augmented Generation (RAG) based conversation search, leveraging AWS Apache Airflow DAGs for efficient workflow management.
- Conducted comprehensive benchmarking of various Language Model's performance to ensure optimal results.
- Led the initiative in selecting a cost-effective and reliable vector database to enhance system efficiency.
- Responsible for the strategic selection and implementation of a vector database, balancing reliability, and cost-efficiency.

### PIXSTORY - Machine Learning Intern

Remote (Jan 2023 – May 2023)

- Trained a transformer-based model to detect hate speech in 6 languages and implemented several approaches to get better recall and precision.
- Developed a RESTful API for data collection and integrated it with a database. The API was then hosted on an Amazon EC2 instance.
- Developed and implemented a dashboard to monitor annotator performance and ensure data quality.

### LOYOLA MARYMOUNT UNIVERSITY – Graduate Research Assistant Los Angeles (June 2022 – Dec 2022)

- Fine-tuned a transformer-based model using Hugging face transformer library and GPU hardware acceleration.
- Enhanced compatibility of a dataset for multi-label classification through meticulous annotation and leveraged the DALL·E API to collect a diverse range of images for further analysis.
- Fine-tuned VIT and BERT models with variety of evaluation methodologies to gain insight about model performances.
- Leveraged capabilities of Selenium Chrome Driver to efficiently scrape and extract valuable data from various online sources for further analysis and processing.
- Published paper at [IEEE ICASSP 2023 conference](#).

### IBM – Application Developer

Bengaluru, India (Dec 2019 – May 2021)

- Raised efficiency above 23% by identifying bottlenecks and removing redundancies in project requirements with suitable rules and fragments in CPQ tool with efficient algorithms.
- Implement several policies to set promotions/offers that was applied for products based.
- Assisted team in migrating to RedHat OpenShift platform; provided a secure and easy to use cloud platform.
- Led 5 minor releases, which improved quality of the product by avoiding long time wait for the changes and this strengthened our clients' trust on our team.

## PROJECTS

- **Master Thesis** [Improving Multi-Modal Food Detection System with Transfer Learning](#)
- **Amaze pay** [github.com/sgowdaks/secure-software-development](https://github.com/sgowdaks/secure-software-development)  
This web application allows the user to carry out all the transactions securely defending CSRF, SQL injection attack in flask.

## EDUCATION

### Loyola Marymount University

(August 2021 – May 2023)

Master of Science in Computer and Information Technology, **GPA: 3.67**

### Amrita School of Engineering

Bachelor of Technology in Electrical and Electronics Engineering, **GPA: 3.43**

(June 2015 – May 2019)

## SKILLS

**Languages:** Python, Java, JavaScript, SQL

**Web technologies:** HTML, CSS, Bootstrap, RDBMS

**Tools, frameworks and technologies:** React.js, Git, SQLite, Flask, Scikit-learn, Linux, Microsoft Excel, AWS, Scrapy, Postman, Selenium, Apache airflow.

## AWARDS

Outstanding Graduate award in Computer Science issued by Frank R. Seaver College of Science and Engineering April 2023