

# SHIVANI GOWDA

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## EXPERIENCE

### PIXSTORY - Machine Learning Intern

Remote (Jan 2023 – May 2023)

- Trained a transformer-based model to detect hate speech on 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.
- Utilized Apache Solr to efficiently index and organize large volumes of Wikipedia data for enhanced search and retrieval capabilities.

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

- Increased accuracy of multi-modal (text and image) multi-label classification model from 86% to 88%.
- 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 client's trust on our team.

## PROJECTS

- **Transfer Learning Approach for Sentiment Classification** [github.com/sgowdaks/sentiment-analysis-using-BERT](https://github.com/sgowdaks/sentiment-analysis-using-BERT)  
Fine-tuned BERT language model on twitter dataset which proved 10% better accuracy than the Support Vector Machine (SVM) model when trained on same datasets.
- **Amaze pay** [github.com/sgowdaks/secure-software-development](https://github.com/sgowdaks/secure-software-development)  
This web application allows user to carry out all the transactions securely defending CSRF, SQL injection attack in flask.
- **Named entity recognition using transfer learning** [github.com/sgowdaks/NER\\_BERT](https://github.com/sgowdaks/NER_BERT)  
Fine-tuned BERT language model on 3 different datasets from biomedical, lunar and planetary science. Converted data from IOB annotation format by writing scripts. Compared the model with 2 different baseline models and noted down the behavior of BERT on above datasets.

## EDUCATION

### Loyola Marymount University

(August 2021 – May 2023)

Master of Science in Computer and Information Technology, **GPA: 3.77**

### 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, Scikit-learn, Linux, Microsoft Excel, AWS, Latex, Scrapy, Postman, Selenium.

## AWARDS

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