

SHIVANI GOWDA

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EXPERIENCE

PIXSTORY - Machine Learning Intern

Remote (Jan 2023 – May 2023)

- Trained multiple transformer-based models for hate speech detection and improved recall and precision using different approaches in six languages.
- Built a RESTful API for data collection and connected it to a database. The API was then deployed on an Amazon EC2 instance.
- Developed and implemented a dashboard to monitor annotator performance and ensure data quality.
- Used Apache Solr to index and organize Wikipedia data in large volumes for improved search and retrieval features.

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 (Multi-modal Food Classification in a Diet Tracking System with Spoken and Visual Inputs. **S. Gowda***, Y. Hu*, M. Korpusik)

IBM – Application Developer

Bengaluru, India (Dec 2019 – May 2021)

- Implement policies to set promotions/offers that was applied for products base.
- Identified the appropriate fragments for the client's requirements and contributed to multiple releases.
- Assisted team in migrating to RedHat OpenShift platform; provided a secure and easy to use cloud platform.
- Analyzed multiple defects and resolved the issue.
- 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
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
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
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.

Last updated: March 31, 2023