

Divyansh Singh

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EDUCATION

- University Of Florida - Herbert Wertheim College of Engineering** Gainesville, USA
• *Master of Science - Computer Science, GPA 3.94/4* August 2022 - May 2024
Courses: Distributed Operating System Principles, Advanced Data Structures, Natural Language Processing
- The LNM Institute of Information Technology** Jaipur, India
• *Bachelor of Technology - Computer Science and Engineering* August 2018 - June 2022
Courses: Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Database Management

SKILLS SUMMARY

- **Languages:** Python, JAVA, C/C++, SQL, Bash, Javascript, CSS
- **Frameworks:** Scikit, NLTK, TensorFlow, Keras, Torch, Spark, Teradata, React, Django, MongoDB, Flask
- **Specialization:** Software Development, Data Science, Machine Learning, Business Analytics, Web Development

EXPERIENCE

- The University of Florida** Gainesville, FL, USA
• *Research Assistant* April 2023 - Present
 - **Leading Research in Prof. Bonnie Dorr's Natural Language Processing lab:** Spearheading the Topic Modelling segment in Prof. Bonnie Dorr's Natural Language Processing lab for the ARLIS Information Competition Simulation initiative, leveraging clustered BERT Embeddings to identify topics across 10,000+ un-annotated documents, achieving a notable cosine similarity of 0.72 with the ground truth.
 - **Deploying open source large language models (LLMs):** Pioneering the research and orchestrating the deployment of open-source large language models (LLMs) for Machine Translation, Topic Modelling and University Education.
- ZS** Remote
• *Decision Analytics Associate (Internship)* January 2022 - June 2022
 - **Raw Patient Level and Physician level Claims data:** Analyzed patient and physician-level claims data: Crafted market share reports and traced patient treatment paths using 6 Hive-sourced retail claims datasets.
 - **Physician Deciling for Promotions:** Strategically isolated and prioritized 500 high-decile physicians using comprehensive nationwide diagnosis statistics, subsequently endorsing and recommending them for promotional opportunities.
 - **Weekly Report of New Patients:** Automated Weekly Patient Reports: Designed a system to highlight new AML patients and their physicians, boosting biopsy counts by 23 percent through targeted reminders.
- The LNM Institute of Information Technology, Jaipur** Remote
• *Research Assistant* July 2021 - December 2021
 - **Computer Vision based Exam Proctoring System:** Worked under Prof. Miller and developed an AI powered proctoring system for online exams using Computer Vision for over 2,000 Students.
 - **Inference System for Efficient Proctoring from Multiple Data Feeds:** Developed the Proctoring system to monitor the camera feed and audio which performed Face Authentication, Phone Detection, Spoofing, Speech to text using **Opencv, Dlib, YOLOv3, Darknet**. Also deployed multi-threading for optimized usage of cloud computing.
- Indian Institute of Technology, Kanpur** Remote
• *Research Intern* May 2021 - July 2021
 - **Aggregated a dataset of about 1,250,000 samples containing hate speech.:** Meticulously extracted hate speech from Twitter and Reddit, assembling a labeled dataset from over 10,000 web pages for in-depth analysis..
 - **Built a BERT Classifier to Identify Hate Speech in Online Text Streams:** Engineered a classifier, leveraging BERT and ELECTRA encoding architectures. Optimized and integrated transformer-based models, achieving an impressive testing accuracy of 98 percent.

PROJECTS

- **JobPly:(Full Stack Development)** : Engineered JobPly, a full-stack Django app simplifying job posting and application processes. Enabling employers to list jobs seamlessly and users to apply with ease. Tech: Python, Django, Javascript, HTML, CSS
- **myReddit: (Full Stack Development):** Architected "myReddit," an intricate Django-based platform optimized for multi-user engagement. The application empowers users to form groups, disseminate posts, express preferences with likes, and augment discussions via a seamless commenting mechanism, all while mirroring Reddit's renowned community model. Simulated and tested using 100,000 Users. Tech: Python, Django, CSS, Javascript, HTML, SQLite

PUBLICATIONS

- **Polyth-Net: Classification of Polythene Bags for Garbage Segregation using Deep Learning:** Research project published at 2021 International Conference on Sustainable Energy and Future Electric Transportation - IEEE · 2021
- **Detection of Emotions in Hindi-English Code Mixed Text Data:** Research Project accepted to be Published at IEEE International Conference on Artificial Intelligence and Smart Systems - IEEE · 2022

VOLUNTEER EXPERIENCE

- **Microsoft Student Partner** Noida, India
• April 2020 - December 2021