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 - May 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 from Optum, SHA retail claims datasets using Spark, Teradata, SQL and Hive.
- **Top Physician's deciling for Promotions**: Strategically isolated and prioritized 500 high-decile physicians using comprehensive nationwide diagnosis statistics, subsequently endorsing and recommending them for promotion opportunities.
- **Automated Weekly Report of New Patients**: Designed a system to highlight new AML patients and their physicians each week, 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.

PROJECTS

- **CareerGPT:(Full Stack Development)** : Core member in the development of CareerGPT using Django for backend and integrated with OpenAI's GPT-4 API. Innovated job search and career advancement tools, offering tailored resume optimization, role mapping, and skills assessment. Pioneered an upskilling resource hub, establishing a benchmark in AI-powered career solutions. One of the winning solution at Shellhacks, 2023 among 790 participants. Tech: Python, Django, Javascript, HTML, CSS, SQL, System Design

- **JobPly:(Full Stack Development)** : Engineering 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, AJAX

- **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