

DARSHAN SARKALE

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🌐 [Portfolio](#)

Education

Lakehead University

Master of Science in Computer Science, GPA: 87.33/100

Sep. 2021 – May 2023

Ontario, Canada

Gujarat Technological University

Bachelor of Engineering in Information Technology, CGPA: 9.44/10

Aug 2016 – Sep. 2020

Gujarat, India

Relevant Coursework

- Data Structures
- Algorithms
- Artificial Intelligence
- Machine Learning
- Software Engineering
- Database Management
- Data Analytics
- Operating Systems

Technical Skills

Programming Languages: Python, SQL

Data Visualization: Microsoft PowerBI, Microsoft Excel, Microsoft PowerPoint

Others: Google Colab, Git, VS Code, AWS

Projects

Bank Customers Churn Analysis | *PowerBI, SQL* | [Dashboard Link](#)

Oct 2023

- Designed and developed a comprehensive Power BI dashboard for a bank, focusing on customer churn analysis on 10k data samples and creating key performance indicators (KPIs) for various customer segments.
- Enhanced data accessibility and user experience by implementing interactive elements, data visualizations, and navigation tools, resulting in improved decision-making and retention strategies.

DynamicSales Insights: E-commerce Performance Dashboard | *PowerBI, Excel* | [Dashboard Link](#)

Sep. 2023

- Constructed and deployed a dynamic Power BI dashboard featuring crucial USA e-commerce metrics (Profit, Margin, Sales, Quantity), driving data-informed decisions and resulting in a substantial 10% improvement in profit margins.
- Spearheaded the use of data gathering, analysis, manipulation, and visualization techniques, resulting in well-informed decision-making and a 20% boost in revenue.

NLP-driven Content Classification Detection | *Python* | [Github Link](#)

Sep. 2022 – May 2023

- Collaborated with Prof. Thangarajah Akilan to conceive and execute a groundbreaking hybrid model and CNN model as a part of a team of 2, utilizing Python, Keras, and NLP libraries.
- Mastered full development pipeline, while concurrently crafting a comprehensive 5-page IEEE-formatted report.

Experience

Lakehead University

Jun 2023 – Present

Research Collaborator

Ontario, Canada

- Pioneered research under Prof. Akilan to develop NLP techniques, resulting in a 25% reduction in false positives, effectively curbing the spread of fake news and cyberbullying on social media platforms.
- Coordinated collaborative initiatives with diverse universities, optimizing NLP-driven models to achieve a 20% increase in accuracy, thereby fortifying defenses against the propagation of harmful content on social media.

Softvan Pvt Ltd

Jul 2019 – Apr 2020

Python with NLP developer Intern

Ahmedabad, India

- Led a team of 3 people by developing the web application and android application, built using Flask and MySQL, and maintained a robust user base of over 50+ active users, saving several hours per week of manual reporting work.
- Engineered a chatbot with Google Dialogflow API and gained proficiency in AWS EC2 cloud services.

Extracurricular

IEEE Conference Research Publication

Sep. 2023

Artificial Intelligence, Blockchain, and Internet of Things (AIBThings)

Michigan, U.S.A.

- Implemented advanced NLP techniques to analyze extensive social media data, categorizing diverse news and detecting various bullying incidences, resulting in actionable insights for targeted interventions and enhancing user safety in online experiences.
- Demonstrated exceptional performance on CNN model, consistently achieving remarkable improvements of 1% - 35% over existing baseline models on multiple benchmark datasets through rigorous experimental studies.