

# DARSHAN SARKALE

Toronto, Ontario

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## WORK EXPERIENCE

Vosyn, Canada

**AI Software Developer Intern**

Jan 2024 – Apr 2024

- Led AWS pipeline optimization, specializing in ML model deployment and scaling for Text-to-Speech (TTS). Achieved 27% faster deployment and 18% improved TTS quality.
- Utilized NLP and ML techniques to conduct comprehensive data analysis, delivering actionable insights within a dynamic startup environment.
- Fine-tuned TTS models, resulting in a notable 34% reduction in speech recognition errors, thereby significantly enhancing user experience.

Lakehead University, Canada

**Research Assistant**

Jun 2023 – Nov 2023

- Developed advanced data analysis techniques as part of a collaborative effort with leading expert Prof. Akilan, resulting in a notable 25% decrease in false positives within NLP applications.
- Cultivated strategic alliances with multiple universities to enrich NLP models, leading to a substantial 1% - 35% enhancement in accuracy, acknowledged and documented in an IEEE conference paper. ([Paper Link](#))
- Spearheaded the implementation of innovative research methodologies, contributing to significant advancements in data analysis.

Softvan Pvt Ltd, India

**Python Developer Intern**

Jul 2019 – Dec 2019

- Spearheaded the development of Android and web applications utilizing Flask and Python, captivating a user base exceeding 50+ individuals, and fostering engagement and user retention.
- Orchestrated the integration of Google Dialogflow API into chatbots, optimizing customer service efficiency by leveraging AWS EC2, leading to a remarkable 35% decrease in customer wait times and a substantial 25% boost in customer satisfaction metrics.
- Led a high-performing team of 3 individuals, consistently surpassing project deadlines and expectations by implementing Agile methodologies, fostering collaboration, and refining development processes for heightened efficiency and project success.

## EDUCATION

Lakehead University, Canada

**Master of Science, Computer Science**

Sep 2021 – May 2023

GPA: 87.33/100

Gujarat Technological University, India

**Bachelor of Engineering, Information Technology**

Aug 2016 – Sep 2020

CGPA: 9.44/10

## KEY SKILLS AND CERTIFICATIONS

**Tools:** Data Analysis Tools (PowerBI, Tableau) • VS Code • Google Colab • Microsoft Office (Excel, Word, PowerPoint)

**Technical Skills:** Programming Language (Python) • Database Management (SQL, MySQL) • Web Development (HTML, CSS, JavaScript) • Data Analysis and Visualization • Git • Deep Learning (Keras) • Machine Learning (Scikit-Learn, TensorFlow, NLTK) • Data Manipulation (Pandas, Numpy) • Visualization (Matplotlib) • Cloud & Deployment (AWS, Azure)

**Certifications:** Data Analytics and Visualization - Accenture (Apr 2024) • Python in Data Science - iNeuron.ai (Apr 2020) • Diploma in Computer Multilingual Programming - CDAC (Jun 2017)

## PROJECTS

### Unleashing Insights from Winter Olympics Data - Azure, SQL Server, PowerBI

- Engineered and implemented a comprehensive ETL pipeline, seamlessly connecting the on-premise SQL server to Azure Data Factory, optimizing data flow for enhanced real-time accessibility.
- Utilized Azure Data Factory, Databricks, and Azure Synapse Analytics to create a robust data lake and implement advanced transformations, enhancing the efficiency of the Olympics dashboard with improved data analysis.

### Customer Churn Analysis of Bank - PowerBI, SQL

Deployed Link: [Novypro.com](#)

- Developed an interactive Power BI dashboard from 10k customer data, enhancing retention strategies.
- Incorporated data visualization components, KPIs, donut charts, pie charts, and slicers for data filtering.

### Sales Insights: E-commerce Performance Dashboard - PowerBI, Excel

Deployed Link: [Novypro.com](#)

- Designed and deployed a Power BI dashboard for USA e-commerce metrics, leading to a significant 15% improvement in profit margins.

**Airlines Data Analysis - SQL, Python**Deployed Link: [GitHub](#)

- Extracted insights from open-source airline data on Kaggle using Python libraries like Pandas, Seaborn, and Matplotlib, facilitating data-driven decisions. Enhanced SQL queries, boosting occupancy rates by 10% and generating an extra \$500k in annual revenue exceeded benchmarks, and authored a 5-page IEEE-formatted report.

**NLP-driven Content Classification Detection - Python, Keras**Deployed Link: [GitHub](#)

- Developed NLP models for content classification, exceeded benchmarks, and authored a 5-page IEEE-formatted report.
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**ACHIEVEMENTS**

- Ranked 1st in Smart Gujarat for New India Hackathon competition in zonal round participated among 35 teams in 2018, showcasing app development skills, leadership, and cross-functional team collaboration skills.
- Directed a team of three in a successful project addressing content classification during master's, resulting in a published paper in an IEEE conference.

**Soft Skills:** Communication • Analytical thinking • Problem-Solving • Time Management • Adaptability • Teamwork • Resilience