

DARSHAN SARKALE

Toronto, Ontario

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WORK EXPERIENCE

Vosyn, Canada

AI Software Developer Intern

Jan 2024 – Mar 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) • SQL for Data Analysis - LinkedIn (Apr 2024) • Power BI Masters - iNeuron.ai (Jun 2020) • Python in Data Science - iNeuron.ai (May 2020) • Diploma in Multilingual Computer Prog. - CDAC (Mar 2018)

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, PythonDeployed 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, KerasDeployed 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