DARSHAN SARKALE

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WORK EXPERIENCE

Vosyn, Canada   *Jan 2024 – Mar 2024*
AI Software Developer Intern

- 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   *Jun 2023 – Nov 2023*
Research Assistant

- 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   *Jul 2019 – Dec 2019*
Python Developer Intern

- 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   *Sep 2021 – May 2023*
Master of Science, Computer Science   *GPA: 87.33/100*

Gujarat Technological University, India   *Aug 2016 – Sep 2020*
Bachelor of Engineering, Information Technology   *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, NoSQL) • Data Visualization • Data Cleaning • ETL • Reporting • Business Intelligence • Statistical Analysis • Github • Power Query • Deep Learning (Keras) • Machine Learning (Scikit-Learn, TensorFlow, NLTK) • Data Manipulation and Visualization (Pandas, Numpy, Matplotlib) • Cloud & Deployment (AWS, Azure)
Certifications: Data Analytics Essentials - Cisco (May 2024) • 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)

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.

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.

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