Jay Joshi

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EDUCATION

**Master of Science: Computer Science - Data Science**  
University of Regina | Regina, SK  
**September 2022 – December 2024**

* Major: Data Science
* GPA: 83.60%

**Bachelor of Engineering: Computer Engineering**  
Gujarat Technological University | Gujarat, India  
**August 2017 – June 2021**

* GPA: 82.17%

SKILLS & ABILITIES

* AWS: QuickSight, Athena, S3, Glue, Lambda (Data Analytics, Storage, Serverless Computing)
* Azure: Synapse Analytics, Data Factory, Microsoft Fabric
* Hadoop Ecosystem, Databricks, ETL Tools
* Object Detection, Deepfake Creation, and Image Classification
* Data Modeling, Preparation, and Data Engineering
* Time Series Analysis , NLP and Predictive Analytics
* Machine Learning, Deep Learning, Neural Network Models, LLMs
* Proficient in Python and C++
* SQL, NoSQL Databases,UAT,UML
* Power BI, Matplotlib, Seaborn for Data Visualization
* Jupyter Notebook,REST API, TensorFlow, PyTorch, Keras
* Git and GitHub

EXPERIENCE

**Co-op Student**  
SaskPower | Regina, Canada  
**January 2024 – August 2024**

* Performed Data Clean Up activities to improve accuracy of business information.
* Conducted research, data analysis, and data visualizations to identify inefficiencies and opportunities for improvement.
* Performed time and motion studies, to enhance productivity and efficiency.
* Analyzed data using tools like Calabrio One and Power BI, identifying inefficiencies and optimizing processes through data-driven insights.
* Proposed actionable recommendations to improve communication, scheduling, and resource allocation, enhancing operational efficiency and employee satisfaction.
* Prepared and presented information to identify business process improvement opportunities, delivering impactful presentations and facilitating workshops and meetings to communicate findings and drive collaboration.

**Junior Data Analyst**  
ODATA PARTNERS | Adelaide, Australia  
**June 2021 – July 2022**

* Developed and maintained a Persistent Staging Area (PSA) for 10+ web applications, supporting both operational and analytical use cases.
* Designed and executed robust Extract, Transform, and Load (ETL) processes for over 30 PSAs, managing a cumulative data size exceeding 30 GB.
* Applied SQL-based transformations (10+ scripts) to ensure data integrity and reliability across systems.
* Executed diverse data-related functions, encompassing data collection, ensuring data integrity through cleansing, and conducting in-depth analysis.
* Established systematic data retention policies, ensuring high data quality and compliance during storage.
* Gathered and validated data from multiple sources using SQL and ETL processes, ensuring accuracy and readiness for analysis.

**Data Analyst - Intern**  
ODATA PARTNERS | Adelaide, Australia  
**May 2020 – May 2021**

* Created and managed interactive Power BI dashboards for retail analysis, delivering actionable insights into key business metrics to enable data-driven decision-making.
* Integrated data from diverse sources, maintaining accuracy and relevance in retail performance reporting.
* Applied statistical and machine learning techniques to derive actionable insights from cleaned data, tackling complex data challenges with innovative techniques.
* Compiled and presented key findings, trends, and recommendations in visually engaging reports, bridging technical and non-technical stakeholders for informed decision-making.
* Collaborated with cross-functional teams to share insights and drive data-informed strategies.

PROJECTS – ACADEMIC

**AzureSent News Analytics Project**  
September 2024 – December 2024

* Built an ETL pipeline using Azure Data Factory and Bing News API for real-time news ingestion.
* Processed data in Azure Data Lake and carried out sentiment analysis with Synapse ML.
* Visualized insights in Power BI with Teams alerts for sentiment changes.

**Concentration Detection Model**  
May 2023 – June 2023

* Designed a real-time distraction detection model using YOLOv5 and PyTorch.
* Monitored webcam footage to identify distractions and triggered audio alerts.
* Enhanced safety and focus in scenarios like studying or driving.

**Predictive Analytics for Equipment Maintenance**  
January 2023 – April 2023

* Developed a predictive analytics model for jet engine maintenance using ANN, XGBoost, and Random Forest.
* Trained models on run-to-failure sensor data to predict Remaining Useful Life (RUL).
* Optimized maintenance schedules, reduced failures, and improved engine reliability.

VOLUNTEER & ACTIVITIES

**Volunteer**:

* Coordinator, GTU Zonal Tech-fest 2020

**Activities**:

* Lakhshya 2019 (Tech-fest)
* Vadodara International Marathon
* Scintilla 17 (Tech-fest)