

Sakhi Tapankumar Patel

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PROFESSIONAL SUMMARY

MS Computer Science student at NC State. Two internships building SQL pipelines and Power BI dashboards. Consolidated dealer and sales data into a reporting warehouse at KIOTI Tractor.

EDUCATION

Master of Computer Science

Aug 2025-May 2027

North Carolina State University - Raleigh, NC

Bachelor of Technology in Information and Communication Technology

Oct 2021-May 2025

Pandit Deendayal Energy University (PDEU) - Gandhinagar, Gujarat

WORK EXPERIENCE

Daedong-USA, Inc. dba KIOTI Tractor | Data Analyst Intern

May 2026-Aug 2026

- Build Power BI dashboards to track dealer status accuracy, territory alignment, and data completeness.
- Analyze dealer, sales, and territory data to identify inconsistencies, missing values, and reporting gaps.
- Document KPI definitions and reporting logic to standardize metrics and improve reporting consistency.
- Build stored procedures and queries in SQL Server/SSMS to consolidate data into a unified reporting layer.
- Support Voice of Customer (VOC) data summarization and reporting for business stakeholders.
- Conduct ad-hoc analyses to answer business questions from Sales and Revenue Operations stakeholders.

Bhavi Technologies (India) Private Limited | Data Analyst Intern

Jun 2024-Jul 2024

- Built and deployed SQL-based ETL pipeline integrating 5+ operational data sources (databases, APIs, flat files); reduced processing latency by 40%, enabling real-time KPI reporting versus prior weekly batch runs.
- Built 2 Power BI dashboards and 1 Tableau dashboard tracking 15+ KPIs (ROI, budget burn, operational efficiency) — adopted by 3 non-technical business units within 1 month of launch.
- Collaborated with engineering and operations teams to standardize metric definitions and reporting workflows, improving year-over-year analytical consistency by 25%.
- Implemented quality-control checks reducing reporting errors by 30%, improving reliability of all BI outputs.

PROJECTS

Disaster Damage Detection via Satellite Imagery | PyTorch, DeepLabV3+, ResNet-50

Jan 2026-May 2026

- Built a two-phase deep learning pipeline for automated building damage assessment using the xBD dataset (850K+ labeled buildings, 19 disaster types).
- Benchmarked 7 geospatial foundation models; fine-tuned DeepLabV3+ with ResNet-50 achieving Dice 0.877 and IoU 0.781, outperforming Satlas and DINOv2.
- Designed JointDamageNet — a dual-branch architecture achieving F1 0.8136, surpassing the xView2 Challenge winning 42-model ensemble (F1: 0.8112).

GenoCompress AI | TensorFlow, PyTorch, NumPy, scikit-learn

Jan 2025-May 2025

- Built a 1D CNN autoencoder achieving 18.9× compression on 500K+ genomic sequences — 6× better than GZIP.
- Validated accuracy at 92.3% using GATK benchmarking tools.
- Reduced training-set noise by 15% through statistical feature engineering on 500K+ sequences.

AI-Powered Suspicious Activity Detection System | YOLOv8, OpenCV, Python

Sep 2024-Dec 2024

- Led a 3-person team to build a real-time computer vision surveillance system processing video at 25 FPS.
- Achieved 87% precision, 83% recall, and 85% mAP@0.5; cut false positives in crowded scenes by 20%.

SKILLS

Visualization & BI: Power BI, Tableau, Matplotlib, Seaborn

Programming Languages: Python (Pandas, NumPy, Scikit-learn), SQL (MySQL, PostgreSQL, SQL Server), R

Machine Learning & AI: TensorFlow, PyTorch, XGBoost, NLP, Computer Vision (OpenCV, YOLOv8)

Statistical Methods: Regression, Classification, Predictive Modeling, Feature Engineering, Statistical Modeling

Developer Tools: Git/GitHub, SSMS, Jupyter Notebook, VS Code, Google Colab, Docker, AWS, Linux

Data Engineering: ETL Pipeline Design, Data Warehouse Development, SharePoint