Sharvari Salgaonkar

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EDUCATION

State University of New York - Binghamton   **Aug 2024 - May 2026**

Master of Science in Computer Science
Relevant Coursework *- Data Structures, Data Mining, Data Science, Statistical Analysis, Software Development*

Dwarkadas J. Sanghvi College of Engineering, Mumbai, India.   **Dec 2020 - May 2024**

Bachelor of Science in Information Technology with honors in DevOps

TECHNICAL SKILLS

Languages & Frameworks: Python, R, Java, JavaScript, TypeScript**, SQL**, HTML, CSS, React, NodeJS, ExpressJS

Development & DevOps: AWS, Azure, Docker, Jenkins, Kubernetes, Git, Apache Spark

Tools : MySQL, Oracle SQL Developer, Excel**, Google sheets, Figma, Photoshop**

Data Analysis and Science : Pandas, NumPy, Scikit-learn, PyTorch, Matplotlib, Power BI, Tableau

PROFESSIONAL EXPERIENCE

Graduate Assistant (Marketing Research) | *Binghamton University | New York*   **Sep 2024 - Present**

- Led labs on predictive analytics using **SPSS** and **Excel,** improving student proficiency in interpreting business data.
- Supported data visualization efforts and taught **KPI analysis** for research metrics.

Research Assistant | *D.J Sanghvi College of Engineering | Mumbai, India*   **May 2023 - Nov 2023**

- Engineered a novel data processing methodology using **Python, SciPy and SpaCy**, enabling 10x faster data analysis compared to the previous manual methods, drastically shortening research cycles
- Enhanced **ML** model accuracy to 85.7% by optimizing feature selection through nonlinear parameter tuning and ensemble learning

Software Development Intern | *Suvidha Foundation | Mumbai, India*   **May 2023 - Jul 2023**

- Built and maintained customer-facing web applications using **React, JavaScript, and CSS** and optimized **UI/UX**, improving site performance by **30%**
- Designed and integrated **5+ RESTful APIs with Node.js**, improving client-server communication efficiency by 30%
- Optimized **SQL** queries and database structures to improve query performance by 40%

TECHNICAL PROJECTS

Humor Analysis and Similarity Search on Reddit jokes   **Jan 2025 - Jan 2025**

- **Analyzed** a dataset of 1 million Reddit jokes to identify jokes which have humor, classify kids vs. adult jokes, and group similar jokes.
- Developed an ensemble model with **BERT, RoBERTa,** and DeBERTa, achieving F1 score of 0.91 in kids vs. adult jokes and F1 score of 0.85 in humor detection
- Implemented a joke similarity retrieval system using cosine similarity on embeddings, used Facebook AI similarity search (FAISS) for faster retrieval

COVID-19 Data Analysis using SQL   **May 2024 - May 2024**

- Optimized **SQL** queries to extract and analyze global COVID-19 trends, reducing manual analysis time by **40%**
- Constructed views and **aggregate functions** to compare regional performance, enabling **early detection** of outbreak zones
- Developed Excel dashboards with pivot tables, improving health data reporting efficiency by **10%**

IMDb Movie Database Analysis   **Jan 2023 - Mar 2023**

- Joined and analyzed IMDb datasets, uncovering trends across **10,000+ movies** to inform user preference models
- Leveraged **SQL window** functions to rank top-rated films, increasing data insight accessibility by **35%**
- Created interactive **Power BI** reports that highlighted key rating patterns and drove data-driven recommendations

Airbnb Listings Analysis   **Nov 2022 - Jan 2023**

- Analyzed **50,000+** Airbnb listings to identify pricing and occupancy patterns, boosting revenue forecast accuracy by **25%**
- Applied SQL-based data cleaning and trend analysis to recommend profitable listing strategies per city zone
- Built **Tableau dashboards** used in a mock business case to inform investment strategy with a 20% ROI simulation

PUBLICATION

- S. Salgaonkar, N. Gupta, C. Kothari, A. Joshi, "Hypothesis Problem Solving Using Natural Language Processing", 4th IEEE International Conference, 2023 International Conference on Computing, Communication, and Intelligent Systems (ICCCIS)