Sharvari Salgaonkar

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EDUCATION

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

Master of Science in Computer Science
***Relevant Coursework** - Distributed Computing, ML, Big Data, Marketing Research, Statistical Analysis, Algorithms*

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, JavaScript, TypeScript, C++, Java, SQL, HTML, CSS, React, Bootstrap, NodeJS, ExpressJS

Development & DevOps: AWS**,** Git, GitHub, Docker, Jenkins, Kubernetes, Terraform, Vs Code, Windows/Linux

Databases: Oracle SQL Developer, MySQL, MongoDB

Machine Learning & Deep Learning: Scikit-learn, TensorFlow, PyTorch, Keras, NumPy, Pandas, OpenCV, Matplotlib

PROFESSIONAL EXPERIENCE

Graduate Assistant - Marketing Research | *Binghamton University* | *New York , United States* **Sep 2024 - Present**

- Mentored **90+** students in advanced marketing research methodologies
- Trained students in **SPSS** as part of the syllabus, ensuring students understood data analysis techniques and application

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 engineering and implementing ensemble learning techniques
- Collaborated in an **Agile environment** to develop and deploy scalable solutions, collaborating with **cross-functional teams**

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%**
- Optimized SQL queries and database structures to improve query performance by 40%

TECHNICAL PROJECTS

PrepPro **Jan 2025 - Feb 2025**

- Enhanced a full-stack job interview preparation platform using **Next.js, TypeScript, Firebase, Tailwind CSS, and Vapi AI,** by enabling real-time, voice based mock interviews
- Integrated **Google Gemini API** to generate interview questions and provide instant AI-driven feedback with detailed transcripts
- Designed and implemented a **responsive dashboard and interview interface**, improving user engagement, accessibility, and cross-device compatibility

Stock Market Analysis and Predictive Modeling **Dec 2024 - Feb 2025**

- Predicted earnings per share using advanced Machine learning algorithms like **Gradient Boosting and Random Forest**, which increased prediction accuracy by **25%**, accounting for data variance more effectively than Linear regression
- Improved model performance by **34%** through feature engineering and **data preprocessing**, including normalization and filling **15%** of missing values, resulting in more accurate **Earnings Per Share**

Hypothesis Problem Solving Using Natural Language Processing **April 2023 - Nov 2023**

- Engineered an automated hypothesis selection tool in **Python utilizing SciPy**, slashing statistical analysis time through efficient extraction of key information and precise test recommendations
- Leveraged **spaCy-based NLP** pipeline encompassing **tokenization, POS tagging, and regex** pattern matching, achieving 95% precision in extracting relevant entities from unstructured engineering reports
- Optimized decision-making processes, leading to an 85.7% accuracy rate and substantial time saving

PUBLICATIONS

- 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), ISBN: 979-8-3503-0611-8
- S. Salgaonkar, A. Patel, P. Vaghela, S. Patil, S. Machado, “College Predictor Using Machine Learning”, Journal of Emerging Technologies and Innovative Research, Volume 11 Issue 4 , April-2024, ISSN : 2349-516