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**

- Designed and integrated **5+ RESTful APIs with Node.js**, improving client-server communication efficiency by **15%** and used **Docker** to reduce environment-related issues by **60%**
- Optimized SQL queries and database structures to improve query performance by 40%

TECHNICAL PROJECTS

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**

Humor Analysis and Similarity Search on Reddit jokes **Nov 2024 - Dec 2024**

- **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

Library Management System **Jan 2023 - Mar 2023**

- **Enhanced** a **Java-based Library Management System**, improving book tracking efficiency by **40%** through automated borrowing and return management
- **Integrated MySQL with JDBC**, enabling **book availability updates** and reducing manual data entry errors by **60%**
- **Applied OOP principles** (inheritance, abstraction) to create a **scalable and maintainable** system, enhancing future feature expansion

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

CERTIFICATIONS

- **J.P Morgan Chase & Co. | Mumbai, India** **Jan 2022- Sep 2022**
  Participated in an intensive, **academic merit**-based, hands-on **Python** workshop, gaining practical experience