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, Systems Programming, Cloud Computing, AI/ML, Design Patterns*

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, C++, Java, TypeScript, JavaScript, SQL, HTML, CSS, **React,** NodeJS
Development & DevOps: AWS, Git, GitHub, **Docker**, Jenkins, Kubernetes, Vs Code, Eclipse, Windows/**Linux**
Databases: Oracle SQL Developer, MySQL, MongoDB, SQLite, Redis
AI/ML & Data: PyTorch, TensorFlow, HuggingFace, Pandas, Scikit-learn, SpaCy, SciPy, Hadoop, Spark, **Power BI, Tableau**

PROFESSIONAL EXPERIENCE

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
- Optimized 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, TypeScript, and CSS** and optimized **UI/UX**, improving site performance by **30%**
- Designed and integrated **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%** and participated in code reviews

TECHNICAL PROJECTS

MindMusic **Jan 2025 - Mar 2025**

- Achieved **90%+ emotion detection accuracy** by integrating custom **text, speech, and facial AI models** using **PyTorch**, **TensorFlow**, and **HuggingFace**
- Boosted user engagement **3x** with a cross-platform stack (**React + Django**) and real-time **Spotify integration** for mood-based music recommendations
- Processed **10K+** data points using Pandas, Spark, and Hadoop, enabling emotion insights and model performance visualization

Library Management System **Nov 2024 - Nov 2024**

- **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

KeyFunds **Jan 2024 - Mar 2024**

- Architected and implemented a modular banking platform using **Spring Boot**, **Spring Cloud**, and **MySQL per service**, enabling service-specific scaling and low coupling
- Deployed an **API Gateway**, **Service Registry**, and centralized routing system to manage dynamic microservice orchestration
- Integrated **Keycloak** for robust authentication/authorization, enabled CI/CD readiness, enhanced **system reliability** by **40%**

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