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: JavaScript, TypeScript, Python, C++, PHP, SQL, HTML, CSS, **React, NodeJS, NextJs**
Development & DevOps: AWS, Git, GitHub, **Docker**, Jenkins, Kubernetes, Terraform, 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

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
- 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, TypeScript, 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 **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

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

Code Diggers **Jun 2024 - Jun 2024**

- Pioneered a collaborative platform for developers to connect with projects and contribute to open-source initiatives
- Engineered API integrations with **Axios** for data retrieval, using **MongoDB** as the database, and implemented **Redux** for efficient state management, reducing load times by 40%.
- Implemented **bcrypt.js** for secure **password hashing** and built interactive UIs with **React.js**, enhancing performance and Google Lighthouse scores

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