

# Shivam Vilas Gaikwad

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## EDUCATION

### University of Southern California, Los Angeles, CA

Aug 2023 – May 2025

Master of Science in Applied Data Science

*Coursework – Analysis of Algorithms, Database System, Data Management, Machine Learning*

*Roles – IT Support Specialist at USC Dramatic School: Troubleshooting, Desktop Support, IT Security and Documentation*

### Savitribai Phule Pune University, Pune, India

Aug 2019 – Jul 2023

Bachelor of Engineering in Computer Engineering (Honors Data Science) [GPA: 9.43/10]

*Roles – Teaching Assistant, Treasurer at Debugger's Club, Core-Committee member of ISTE, H.R Committee of Rotaract Club of Nashik*

## TECHNICAL SKILLS

- **Languages:** Python, R, C++, Java, HTML, CSS, JavaScript
- **Databases:** MySQL, PostgreSQL, MongoDB, Snowflake, MS SQL Server
- **BI Tools:** Tableau, Power BI, MS Excel, Alteryx
- **Frameworks:** TensorFlow, NumPy, Pandas, Scikit-learn, Matplotlib, PyTorch, Seaborn

## PROFESSIONAL EXPERIENCE

### A.I & M.L Intern - Cognifront Pvt. Ltd. Nashik, India

Jan 2022 – Feb 2022

- Mastered Python programming for data manipulation and analysis. Utilized Pandas, Jupyter, NumPy, Scikit and Matplotlib for data processing and visualization.
- Led and managed a team to complete a capstone project focused on utilizing Kernel SVM classification algorithm for predicting water portability and obtained an accuracy of 91%.

### Data Science Intern – Smartknower Edutech Pvt. Ltd. Karnataka, India

Jun 2021 – Jul 2021

- Performed data cleaning, transformation, and preprocessing of basket dataset for comprehensive analysis.
- Applied advanced market basket analysis techniques using 'mlxtend' library's Apriori algorithm with a minimum support of 0.01 and minimum confidence of 0.5.
- Designed and developed a dynamic Tableau Dashboard for efficient visualizing and sharing project findings.

## ACADEMIC PROJECTS

### Uber Data Analytics (Google Cloud Platform)

2023

- Used TLC taxi record data and performed ETL features on the dataset. Build the data model for analysis from scratch.
- Performed an end-to-end data pipeline, extracting raw data from Google Storage, transforming it using Mage Data Pipeline Tool, and loading it into BigQuery for in-depth analysis.

### Real Time Sign Language Translation using Microsoft XBOX Sensor

2023

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- Deployed real-time system which captures and analyzes signs made by individuals, converting them into text and speech, and translating audio signals into corresponding sign language.
- It utilizes Kinect sensor for input processing and NN-DTW (K Nearest Neighbors & Dynamic Time Warping) classifier to find similarity between signs with estimated precision of 90%.

### Bank Loan Approval System

2022

- Employed SMOTE technique to balance dataset and enhance model stability. Implemented different machine learning algorithms including SVM, Decision Tree, Random Forest, and Logistic Regression.
- Evaluated and compared model performance to determine most accurate prediction approach. Achieved highest accuracy (81.3%) with Logistic Regression outperforming other classification algorithms.

## RESEARCH EXPERIENCE & PUBLICATIONS

- Gaikwad, S., Joshi, M. P., & Joshi, J. G. (2021, November), "Design of Circular Microstrip Antenna Using Python". In 2021 IEEE Bombay Section Signature Conference (IBSSC) (pp. 1-3). IEEE.
- Shivam V. Gaikwad, Mandar P. Joshi, Jayant G. Joshi, "Resonant Frequency Calculation of Hexagonal Microstrip Antenna using Python" published in 2022 National Conference in Recent Trends in Communication, Computing and IoT (RTCCI).

## AWARDS & ACHIEVEMENT

- Best Outgoing Student Award of Computer Engineering Department.
- 2 - Merit Scholarships (Among Top 3 Students in First Year of Engineering, Top 3 in Bachelor of Engineering).
- State Level Cricket Player, District Level Lawn Tennis Player, and Certified YOGA Trainer.