

# SAHIL SUBHASHBHAI VACHHANI

+1 959-283-0282    [sahilsubhasbhaivachhani@gmail.com](mailto:sahilsubhasbhaivachhani@gmail.com)

<https://www.linkedin.com/in/sahil-subhashbhai-vachhani-037349202/>    <https://github.com/sahilsvachhani>

## EDUCATION

### University at Buffalo, The State University of New York

August 2024 - Present

*Master of Science, Engineering Science (Data Science)*

*Buffalo, New York*

Relevant Coursework: Introduction to Probability Theory for Data Science, Introduction to Numerical Mathematics for Computing and Data Scientists, Statistical Learning and Data Mining I, Programming and Database Fundamentals for Data Scientists

### Gujarat Technological University

August 2020 - June 2024

*Bachelor of Engineering in Computer Engineering (CGPA: 7.93 / 10.00)*

*Ahmedabad, India*

Relevant Coursework: Data Structures, Database Management Systems (DBMS), Design and Analysis of Algorithms, Artificial Intelligence, Big Data Analytics, Probability and Statistics, Cloud Computing, Object-Oriented Programming

## WORK EXPERIENCE

### Dinjan Infotech Pvt. Ltd. [🌐]

Surat, India

*Machine Learning and Deep Learning AI Intern*

*January 2024 - May 2024*

- Developed AI/ML solutions, including Breast Cancer Detection, Credit Card Approval Prediction, and Uber Trips Data Analysis using machine learning and data analysis techniques.
- Built and deployed Telegram Bots such as the Clima Weather Bot, along with an OpenAI-powered chatbot and Gemini Chatbot.
- Automated tasks through Web Scraping for job portals and utilized NLP for text processing tasks like Word Count analysis.

### Infolabz IT Services Pvt. Ltd. [🌐]

Ahmedabad, India

*Data Analytics and Machine Learning Intern*

*July 2023 - August 2023*

- Gained hands-on experience in Data Analytics, working with API data, performing analysis using pandas, and creating visualizations with matplotlib.
- Implemented machine learning models, including elementary regression techniques, to enhance predictive analysis skills.

## DATA SCIENCE PROJECTS

### Breast Cancer Detection | Python, Machine Learning, Data Visualization

- Developed a breast cancer detection model using machine learning techniques such as Logistic Regression, Decision Tree, and Random Forest to classify tumors as malignant or benign.
- Conducted data preprocessing, feature scaling, and visualization with pandas, matplotlib, and seaborn to identify correlations and trends within the dataset. Achieved high accuracy on test data using confusion matrices for model evaluation.

### Credit Card Approval Prediction | Python, Machine Learning, Data Preprocessing

- Developed a predictive model for credit card approval using Support Vector Machines (SVM), handling missing values, categorical encoding, and feature selection to optimize the dataset.
- Achieved high accuracy in classifying credit card approvals by training and testing the model on a cleaned dataset, leveraging data preprocessing techniques and model evaluation with accuracy scores.

## SKILLS AND TOOLS

**Languages :** Python, SQL, R, MATLAB

**Technologies:** Data Science, Machine Learning, Deep Learning, Natural Language Processing (NLP), Data Visualization, Web Scraping, API Integration

**Tools:** Jupyter Notebook, Google Colab, MySQL, VSCode, PyCharm, Matplotlib, Seaborn, Tableau

## LEADERSHIP EXPERIENCE AND ACTIVITIES

### Cultural Fest Vice President

*Sponsorship and Budget Management. I ensured that the festival remained financially viable through careful budget oversight.*