Meet Savani

Arlington, TX, USA

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Education

University of Texas at Arlington *Texas, USA*

Data Science, Master of science *Aug 2023 - Ongoing*

Sal College of Engineering *A'bad, GUJ*

Computer Engineering,Bachelor of Engineering *Jul 2019 - May 2023*

- CGPA: 8.17/10

Internship Experience

Artificial Intelligence Intern *Ahmedabad, India*

Gujarat Technological University *Feb 2023 - Apr 2023*

- Developed state-of-the-art algorithms for anomaly detection and predictive analytics, leveraging expertise in SVM, KNN, and XGBoost. Significantly improved team capabilities and contributed to critical projects, resulting in a 25% reduction in false negatives.
- Conceptualized AI and machine learning, simplified and automated complex operations, saving 20 hours of work a week and increasing team productivity by 30% in the AI sector.

Data Science Intern *India*

Skillvoid, IIT Roorkee *Jun 2022 – Jul 2022*

- Spearheaded a data analysis internship, leveraging expertise in PowerBI, Tableau, SQL, and Python to manipulate, clean, and visualize data; achieved a 20% increase in data-driven decision-making across the organization.
- Orchestrated collaboration with a cross-functional team of 6 to extract actionable insights from complex datasets, that causes a 25% decrease in customer support issues and a boost of 15% in customer satisfaction ratings.
- Exhibited a dedicated pursuit of learning and development, meeting project deadlines with a 100% on-time completion rate.

Machine Learning Intern *Delhi, India*

YBI Foundation *Feb 2022 - Apr 2022*

- Completed an internship conceptualized on machine learning, encompassing different types and applications of machine learning techniques, and trained models to achieve accuracy between 90% to 99%.
- Accomplished projects with a 95% completion rate, demonstrating consistent adherence to timelines and high-quality deliverables, contributing to the internship program's success through active participation and commitment to learning.

Projects

i-SARAL - System for Analysis and Recognition of Anomaly in Lungs

Python, Flask *Feb 2023 - May 2023*

- This project analyzed advanced Deep Learning algorithms to detect lung diseases like Pneumonia, and COVID-19, analyzing over 15,000 medical images for robust training and validation.
- Proposed a Convolutional Neural Network(CNN) model and secured 95% accuracy in detecting lung diseases, Pneumonia, and COVID-19.
- Delivered an impactful presentation at the GTU Skills Development Center, showcasing research findings that revolutionized medical diagnostics and garnered recognition for driving innovation.

Diabetes Detection

Python, Flask, HTML/CSS *Jul 2022 - Aug 2022*

- Devised a predictive model for diabetes prediction using over 2000+ training values, focusing on feature engineering and data preprocessing to ensure data quality and integrity.
- Employed 3+ algorithms, including Support Vector Machine (SVM), Random Forest and Obtained remarkable accuracy in SVM model with a performance score of 93%.

Virtual Health Care

HTML/CSS, JavaScript, PHP, SQL *Mar 2022*

- Created a advanced web-based platform for secure virtual healthcare interactions, resulting in a 50% increase in patient engagement and satisfaction.
- Appointment scheduling, secure video consultations,and patient records features, ensuring user privacy and data security, resulting in 25% reduced administrative errors.

Skills & Interests

Languages	Python (Pandas, PyTorch, NumPy, Scikit-learn.), JAVA, PHP, C
WebD	HTML, CSS, JavaScript, PHP, Bootstrap
Utilities	Anaconda, Git, Jupyter Notebook, PowerBI, Tableau, MS Office, VScode, Pycharm, Linux
Other	Communication, Management
Communication	Gujarati, English, Hindi.
Interests	Machine Learning, Politics, History Reading, Cricket, Football.

Certifications

AI Fundamentals (AI-900), Microsoft Certified *India*

Microsoft Certification I525-5431. Score:916 *Dec 2022*

Data Fundamentals (DP-900), Microsoft Certified *India*

Microsoft Certification I527-1150. Score:833 *Dec 2022*

Publications

Financial Fraud Detection Approaches Using Machine Learning *A'bad,GUJ*

GTU International Conference GTU ICON 2022 *Sep 2022*

- Published a comprehensive review of machine learning methodologies for financial fraud detection, addressing a critical concern for financial institutions.
- Explored and assessed the performance of 3+ deep learning algorithms, CNN, LSTM and KNN. The study emphasizes the importance of early detection in reducing losses incurred by fraudulent activities.

BREAST CANCER DETECTION WITH MACHINE LEARNING *A'bad,GUJ*

IJRASET *Feb 2022*

- Conducted an in-depth analysis of machine learning methods for breast cancer detection, employing the Wisconsin breast cancer dataset as the primary subject of study.
- Through rigorous evaluation and visualization of machine learning predictions, identified XGboost as the most accurate algorithm, achieving an impressive 98.24% detection efficiency.