

VATSAL S SUTHAR

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SUMMARY

Data Science and Analytics Professional with extensive experience in data analysis, machine learning algorithms, and statistical modeling. Proficient in utilizing advanced analytical techniques and tools to extract insights from complex datasets, optimize processes, and enhance decision-making. Skilled in implementing machine learning models and statistical methods to solve real-world problems.

TECHNICAL SKILLS

Programming Languages: Python, R

Databases: MySQL, Mongo DB, DynamoDB

BI & Analytics: Power BI, Tableau, Excel, Google Analytics

Soft Skills: Time Management, Teamwork, Problem Solving, Research Skills, Engaging Presentation

Tools & IDE: PyCharm, VS Code, Spider, Google Colab, Jupyter

Clouds & Frameworks: AWS, GCP

WORK EXPERIENCE

Assistant Professor- INDUS UNIVERSITY

Sep 2024 - Present

As an Assistant Professor in the Computer Department, responsibilities include teaching, developing curricula, mentoring students, and contributing to research. Support is provided for sports events, showcasing strong team management skills and fostering positive relationships within the organization. Actively involved in the Student Affairs Committee and in organizing and coordinating sports events to enhance campus activities.

Research Associate- IIM AHMEDABAD

June 2022 - March 2024

Led an NLP project predicting Twitter users' gender and age using tokenization, TF-IDF, and reference dictionaries, achieving high accuracy. Contributed to a research project analyzing MSME survey data across regions to identify trends and insights, supporting policy decisions and MSME growth. Collaborated with a professor to create an online course on digital tech applications, boosting engagement by 30% through effective Power BI data visualization.

Research Machine Learning Intern- ISRO AHMEDABAD

June 2021 - March 2022

Gained insights into SAR data and researched the Edge-Otsu algorithm for detecting water and land features, improving accuracy by 20% in water mapping. Leveraged ESA Snap tools for comprehensive data processing and analysis.

PROJECTS

Human Activity Recognition Using Smartphones

Utilized various machine learning algorithms, including K-Nearest Neighbors (KNN), Support Vector Classification (SVC), and Random Forest, to enhance model performance. However, the highest accuracy achieved was 96.19% by implementing Logistic Regression.

NYC Yellow Taxi Prediction Analysis

Analyzed NYC taxi attribute data to predict fares with 93.01% accuracy using the XGBoost regression model, highlighting strong predictive capabilities.

Covid-19 Chest X-ray Detection

Developed a robust model using ResNet18 for evaluating chest X-rays. Successfully deployed the model on the cloud, enabling real-time analysis and accessibility for healthcare professionals.

CERTIFICATES

R for Data Science (applied R techniques for exploratory data analysis and visualization),

Cloud Foundations (gained foundational knowledge of cloud computing principles),

Python Fundamentals for Beginners by Great Learning (developed a strong foundation in Python programming)

Career Essentials in Data Analysis by Microsoft and LinkedIn (acquired essential skills in data analysis)

EDUCATION

M.Tech. in Computer Science and Engineering

Ahmedabad University- Specialization in Data Science and Analytics.

Sep 2020 - May 2022

CGPA-3.00/4.00

Bachelor of Engineering in Computer Engineering

Gujarat Technological University- Darshan University

Aug 2015 - June 2019

CGPA- 8.21/10.00