

# ROHAN SADAPHULE

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## PROFESSIONAL SUMMARY

Results-driven Data Science professional with expertise in Python programming, Machine Learning, and Natural Language Processing. Demonstrated ability to build predictive models and extract actionable insights from complex datasets. Proven track record of developing end-to-end data science solutions with 80-85% accuracy rates. Strong foundation in statistical analysis, data visualization, and model deployment.

## TECHNICAL SKILLS

**Programming Languages:** Python, SQL, PostgreSQL, JavaScript, HTML, CSS  
**Data Science Libraries:** Pandas, NumPy, Scikit-Learn, TensorFlow, PyTorch, Matplotlib, Seaborn  
**Data Visualization:** Tableau, Power BI, Matplotlib  
**Development Tools:** Git/GitHub, Jupyter Notebook, Google Colab, VS Code  
**Operating Systems:** Linux (Ubuntu), Windows (10, 11)  
**Other Tools:** Microsoft Excel, Google Sheets, Data Analysis, Ollama

## PROJECTS

### WhatsApp Chat Pattern Learner (Natural Language Processing)

GitHub Repository | Live Demo

- Developed an intelligent NLP chatbot using Naive Bayes algorithm for pattern recognition and response generation
- Achieved 80% response accuracy through advanced text preprocessing and feature engineering techniques
- Implemented data cleaning, tokenization, and sentiment analysis on WhatsApp conversation datasets
- Technologies: Python, NLTK, Scikit-Learn, Pandas, Natural Language Processing, Streamlit,

### Heart Disease Prediction System (Machine Learning)

GitHub Repository

- Built a predictive ML model using multiple algorithms to assess heart disease risk with 85% accuracy
- Performed comprehensive data preprocessing, feature selection, and model optimization
- Created interactive visualizations using Matplotlib to present model performance and feature importance
- Technologies: Python, Scikit-Learn, Pandas, Matplotlib, Data Preprocessing, Model Evaluation

### Hotel Booking Analysis (Web Scraping & EDA)

GitHub Repository

- Conducted web scraping and comprehensive EDA on hotel booking data to identify customer behaviour patterns
- Utilized statistical analysis and data visualization to uncover booking preferences and seasonal trends
- Generated actionable business insights for revenue optimization and customer retention strategies
- Technologies: Python, Pandas, Matplotlib, Seaborn, Web Scraping, Statistical Analysis

## EDUCATION

### Bachelor of Engineering in Computer Engineering

2023

B R Hare College of Engineering,  
Vangani **CGPA: 8.40**

### Diploma in Computer Programming

2020

Cusrow Wadia Institute of Technology, Pune  
**Percentage: 65.38%**

## CERTIFICATIONS

### Full Stack Data Science Professional Certificate

July 2024

AlmaBetter

- Comprehensive training in Python programming, Machine Learning algorithms, and data visualization techniques
- Hands-on experience with real-world projects including predictive models and statistical analysis
- Covered advanced topics: Deep Learning, NLP, Computer Vision, and Model Deployment