

Mit Soneshbhai Patel

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Profile

Computer Science Engineering student with hands-on experience in data science and machine learning; currently learning deep learning. Enjoys applying technology to solve real-world problems.

EDUCATION

Pandit Deendayal Energy University

Gujarat, India

Bachelor of Engineering in Computer Science Engineering

2023 – 2027

- CGPA (up to 3rd semester): 8.87
- Class 12th: 98.03 PR | Class 10th: 94.64 PR
- Relevant coursework in Data Science, Machine Learning, Deep Learning, Object-Oriented Programming, Data Structures

TECHNICAL SKILLS

Programming Languages: Python, Java, C/C++

ML/AI: scikit-learn, ANN, CNN

Databases: MySQL

Frameworks & Libraries: Flask, Spring Boot, Keras, Matplotlib, Seaborn

Tools: Tableau, Power BI, Git, Google Colab

CERTIFICATIONS

- Power BI & tableau Workshop ,organized by Society of Mathematics -Mar'24 ([img](#))

Projects

Credit Card Fraud Detection | [Github link](#)

- Developed a machine learning model to identify fraudulent credit card transactions using historical data.
- Utilized Python, Pandas, Scikit-learn, and Random Forest algorithm for model training.
- Achieved 95% accuracy, helping detect suspicious activity in real-time simulations.

Rainfall Prediction | [Github link](#)

- Predicted rainfall using historical weather data to assist in agricultural planning.
- Applied linear regression, data preprocessing, and visualization with Matplotlib and Seaborn.
- Resulted in an accurate and interpretable forecast model with strong R^2 score.

Gold Price Prediction | [Github link](#)

- Forecasted gold prices using time series and regression models trained on historical data.
- Implemented data preprocessing, feature engineering, and used Linear Regression with Scikit-learn.
- Model provided consistent predictions and insights for price trends.

Parkinson Disease Prediction | [Github link](#)

- Created a machine learning model to detect Parkinson's disease based on voice measurements and clinical data.
- Used Support Vector Machine (SVM) and feature scaling techniques in Scikit-learn.
- Achieved over 90% accuracy, contributing to early diagnosis support tools

Mall Customer Segmentation using Clustering | [Github link](#)

- Analyzed customer purchasing behavior using clustering techniques to identify spending patterns.
- Applied K-Means, Hierarchical Clustering, Elbow Method, Silhouette Score, and Dendrograms for optimal grouping.
- Helped uncover 5 distinct customer segments, offering insights into targeted marketing strategies.