BRIJESH RAKHASIYA

Passionate about designing and deploying machine learning models to solve real-world problems. Strong foundation in ML algorithms, data preprocessing, and model optimization with hands-on deployment experience.

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EDUCATION

B.Tech(Honours) AIML -Data Science
Charust University,Anand
📅 02/2025-present ---------------- **9.00cgpa**

JB & KARP VIDYA SANKUL
📅 03/2023   Surat
12th Grade(Science) ---------- **70% Percentage**

PERSONAL PROJECTS

Music Genre Classification using Machine Learning   (Ongoing)

Email & SMS Spam Classifier   (Jan-Feb 2025)

→ Developed an ML pipeline for email/SMS classification using Naïve Bayes, Logistic Regression, and SVM. Applied NLP techniques like TF-IDF & word embeddings for feature extraction. Optimized performance via hyperparameter tuning. Built a web-based system for downloading logs, artifacts, model files, real-time predictions, and model retraining.

Blood Group Detection using Fingerprint   (Jan-Feb 2025)
→Enhanced a Blood Group Detection system using fingerprint analysis, leveraging machine learning for accurate classification. The system extracts key features from fingerprints to identify blood groups, offering a non-invasive and reliable method for blood group determination.

Health Disease Prediction   (Feb 2025)

→Evaluated 10 machine learning models for heart disease prediction, optimizing performance metrics.
→Random Forest (entropy criterion) emerged as the best model with 90.63% accuracy.
→Conducted feature selection, achieving an optimized accuracy of 89.36% with minimal performance drop.

Breast Cancer Detection   (Jan 2025)
Improved a breast cancer detection model using Kaggle histopathology data. Implemented Logistic Regression, Decision Tree, and Random Forest, achieving 97.37% accuracy with Random Forest. Enhanced early detection capabilities to assist in medical diagnosis and treatment, improving the potential for timely intervention.

CODING PROFILES

Leetcode   Codechef   Hackerank

TECHNICAL STACK

Data Science / Machine Learning / Deep Learning
Python,Data Visualisation,Supervised learning algos, Unsupervised Learning algos,ANN,CNN,EDA ,Feature engineering,Feature selection & extraction etc.

Mathematics for ML & DL
Algebra, Probability, Statistics, Calculus,Matrices.

Python packages and Frameworks
Scikit-Learn,Tensorflow,Keras, NumPy, Pandas, Matplotlib, Seaborn , Plotly , SciPy.

Web Devolopment
Html,CSS,Flask,Javascript,figma.

Programming languages
Python,R,C++,Java,SQL,C.

Databases
OracleSql , MySql.

Cloud Deployment and containers
AWS beanstack,AWS EC2,Streamlit,Git.

CERTIFICATIONS

Google AI Essentials
Coursera ,Feb 2025

Machine Learning & Deep Learning
IBM, Kaggle ,Jan 2025

Data Structures and Algorithms with Java
Nptel ,Dec 2024

Data Science & Analytics
Hp ,Feb 2025

Getting Started with AI on Jetson Nano
Nvidia,Sep 2024

Mlops Fundamentals
Microsoft , Qwiklabs GCP,Aug 2024

SOFT SKILLS

· Fast Learner   · Leadership   · Optimistic
· Problem Solving   · Communication Skills
· Time Management

INTERESTS

· AI/ML   · Software Engineer   · Data Science

LANGUAGES KNOWN

· English · Hindi · Gujarati