RIYA SINGH

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EDUCATION

VIT Bhopal University |Bhopal, Madhya Pradesh Sept 2022- July 2026
Bachelor of Technology (Computer Science Engineering with specialization in Cloud Computing and Automation) CGPA- 8.41/10

Lucknow Public School CBSE |Lucknow,Uttar Pradesh

- 12th CBSE (Apr 2020 – Mar 2021)
- 10th CBSE (Apr 2018 – Mar 2019)

PROJECT

Brain Tumor Detection

- Developed a deep learning model using Convolutional Neural Networks (CNNs) to classify brain MRI images into tumor and non-tumor categories with **96% accuracy.**
- Trained on a dataset of **3,762 labeled images,** applying image preprocessing, data augmentation, and binary classification techniques.
- Utilized **TensorFlow, Keras,** and **OpenCV** for model training and evaluation. Optimized performance using ReLU activation, MaxPooling, and Dropout layers to reduce overfitting and enhance generalization.

BEATWELL - Fitness Tracking Application

- Built and deployed Beatwell, a responsive web application, using **HTML, CSS, and JavaScript**, hosted on **AWS Amplify** with a custom domain.
- Achieved **99.9% uptime, <2s page load time**, and fully automated **CI/CD for real-time** updates. The app supports multi-device responsiveness and handles 100+ user interactions per session. Integrated with GitHub for version control and scalable deployment infrastructure.

Diabetes Prediction Model

- Engineered a predictive analytics solution using **the Pima Indians Diabetes Dataset (768 samples, 8 clinical features)** to assess Type 2 diabetes risk.
- Employed supervised learning algorithms including Logistic Regression and Random Forest, achieving up to **92% model accuracy**.
- Integrated the model into a responsive **Flask-based** web application for real-time health risk assessment and enhanced user interaction.

Face Recognition Attendance System

- Engineered a Python-based facial recognition system using **OpenCV, Tkinter, and MySQL** to automate attendance tracking for 100+ students.
- Implemented **Haar Cascade classifiers** for face detection and trained the model on **500+ face images**. Designed a GUI with 6 interactive image-based buttons for registration, training, recognition, and reporting.
- Integrated MySQL database connectivity to store and manage student records and attendance logs, ensuring reliable and scalable data management alongside CSV export functionality.

SKILLS

- Languages: Hindi, English
- Programming languages: Java, Python(Pandas, Numpy), MySQL, HTML, CSS
- Others: Oracle Cloud, AWS(All about the platform and services), Machine Learning(CNN, Prediction Modeling).

CERTIFICATIONS

- SQL on Oracle Cloud
- Salesforce Developer(With A grade)
- MY SQL Leetcode Question Challenge
- AWS Practitioner (In Progress)
- Bits and Bytes (Coursera)