

# SHREYANSH SHAKYA

31, Shiv Colony, Banswara (327001), Rajasthan

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## Education

### VIT Bhopal

*Bachelor of Science in Computer Science*

**Sep. 2023 – Expected Graduation: 2027**

*Madhya Pradesh*

## Relevant Coursework

- Data Structures Algorithms
- Database Management
- Artificial Intelligence
- Computer Architecture

## Projects

### Student Performance Predictor — *Python, Scikit-Learn, Pandas, NumPy*

**April 2024**

- Developed a predictive model using machine learning to estimate student performance based on study habits and parental education.
- Performed data cleaning, feature scaling, and exploratory data analysis (EDA) on a dataset with 1,000+ samples.
- Compared the performance of Linear Regression, Random Forest, and Decision Tree models using Mean Squared Error (MSE).

### Brain Tumor Segmentation — *Python, TensorFlow, EfficientNet, Medical Imaging*

**Sep. 2024**

- Designed a deep learning model for medical image segmentation, achieving a 70% Dice coefficient on BraTS validation dataset.
- Integrated EfficientNet encoder in a U-Net architecture, improving segmentation accuracy by 12%.
- Processed and visualized over 1,500 3D MRI brain scans using NumPy and Matplotlib.

### Live Voice Analysis — *Python, TensorFlow, Librosa, CNN-BiLSTM*

**March 2025**

- Developed a real-time voice analysis system with latency under 100ms, classifying speech emotions with 85% accuracy.
- Trained a Speech Emotion Recognition (SER) model on 5,000+ audio samples from RAVDESS and TESS datasets.
- Implemented a pitch visualization tool rendering updates at 30 FPS using OpenCV.

## Technical Skills

- **Languages:** Python, C++, C, SQL
- **Machine Learning:** TensorFlow, Scikit-Learn, PyTorch
- **Data Visualization:** Matplotlib, Seaborn
- **Developer Tools:** VS Code, Git/GitHub, Google Cloud Platform, Jupyter Notebook

## Leadership / Extracurricular

### IEEE CSNT Conference 2025

**March 2025**

*VIT Bhopal*

- Volunteered in IEEE CSNT Conference 2025, assisting in logistical planning and execution.
- Anchored a session, demonstrating strong communication and public speaking skills.

### Cooking and Feasting Club

**Feb. 2025**

*VIT Bhopal*

- Led a team to organize *RustleUpPristine*, the annual cultural festival, increasing attendance by 200%.
- Implemented teamwork strategies that improved member retention by 90%.