SATISH PRAJAPATI

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EDUCATION

Samrat Ashok Technological Institute Vidisha (M.P.) India — November 2022 — Present
Bachelor of Technology in Artificial Intelligence and Data Science — GPA: 7.90/10

Govt Exe HS School Ganj Basoda (M.P.) India — July 2020
12th Standard — Percentage: 80.20 %

Govt Exe HS School Ganj Basoda (M.P.) India — May 2018
10th Standard — Percentage: 81.80 %

PROJECTS

Minor Project — Deepfake Voice Detection | Python, Librosa, CNN-LSTM — May 2025

- ML-based system to detect deepfake voices using the FAKE or REAL (FOR) dataset.
- Preprocessed audio by normalizing to 16kHz WAV, trimming silence. Engineered MFCCs, spectrograms, and spectral-temporal features with Librosa.
- Trained and evaluated SVM, XGBoost, and CNN-LSTM models. Designed a CNN-LSTM hybrid to capture both spectral and temporal patterns.
- The baseline SVM model achieved an accuracy of 93.75 %, demonstrating strong generalization performance, while XGBoost outperformed all models with 96.25 % accuracy and high precision/recall balance. The Proposed Hybrid Model (CNN-LSTM), though slightly lower in overall accuracy 79.75 %, captures complex temporal and spectral features, which is critical for future scalability and real-time adaptability.

Crop Disease Diagnosis | Python, OpenCV, TensorFlow, CNN — December 2024

- A machine learning-based system to detect and classify crop diseases using image processing techniques.
- The project leverages deep learning models to analyze leaf images and identify diseases.
- A dataset of diseased and healthy crop images was used to train the model.
- Helps farmers take preventive action to improve crop health and yield.

TECHNICAL SKILLS

Programming Languages: C, Python, Java, R
Web Technologies: HTML, CSS
ML & Data Science: Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow
Audio & Image Processing: Librosa, OpenCV
Miscellaneous: MySQL, Jupyter Notebook, GitHub
Computer Science Fundamentals: Data Structures and Algorithms, Object-Oriented Programming, DBMS (SQL)

INTERNSHIPS

AI: Transformative Learning with TechSaksham — Jan 2025 – March 2025
A joint CSR initiative by **Microsoft** and **SAP** — AICTE, Edunet Foundation

- Completed a project-based internship under the TechSaksham initiative, focused on applying AI in real-world scenarios.
- Developed a machine learning solution for **predicting disease outbreaks**.

CERTIFICATIONS

IT-ITeS Sector level-4 — August 2016 – March 2021
Ministry of Skill Development and Entrepreneurship & NSDC — Govt Exe School

- Gained hands-on experience with open-source technologies, enhancing my problem-solving abilities and technical skills
- Built a strong foundation in Microsoft Office, Database Management Systems (DBMS, RDBMS), web development (HTML, CSS), and Python programming