

Shreyansh Shakya

Machine Learning Engineer Intern — ML Pipelines, Model Deployment

Banswara, Rajasthan, India

+91-9116924202 — shreyanshshakya695@gmail.com — LinkedIn — GitHub — Portfolio

Technical Skills

Programming: Python

Machine Learning: XGBoost, CNNs, LSTMs, U-Net, EfficientNet, Model Evaluation (RMSE, MAE, Accuracy)

Data & Pipelines: Pandas, NumPy, Feature Engineering, EDA

Deployment & Tools: FastAPI, Docker (basic), Gradio, Git, GitHub, VS Code

Projects

Weather Prediction System (ML at Scale)

Python, XGBoost, FastAPI, Docker

- Processed a **90+ GB dataset** with **10 years of weather data from 4,500+ cities**.
- Trained city-specific XGBoost regression models and implemented a dynamic model-loading inference pipeline.
- Exposed trained models via REST APIs and an interactive UI (FastAPI, Gradio); containerized inference using Docker.

3D MRI Brain Tumor Segmentation (Ongoing)

Python, TensorFlow, U-Net, EfficientNet

- Building a 3D medical imaging pipeline for brain tumor segmentation using U-Net with an EfficientNet encoder.
- Designing preprocessing and evaluation workflows for volumetric MRI data with focus on performance and efficiency.

Speech Emotion Detection

Mar 2025 – Jul 2025

Python, TensorFlow

- Developed an audio classification pipeline using MFCC features and CNN-based models.
- Achieved **72% accuracy**; research paper accepted at DECON conference.

Experience

AI Research Intern

Apr 2025 – Jul 2025

Coding Jr — Remote

- Analyzed user and market data to support feature prioritization and ML-driven product decisions.
- Collaborated with engineering teams to translate analytical findings into technical requirements.

Education

B.Tech in Computer Science and Engineering, VIT Bhopal University *Expected Jun 2027*

Relevant Coursework: Machine Learning, Deep Learning, Probability & Statistics, DBMS, DSA

Certifications

Oracle Certified Data Scientist — AWS Educate: Introduction to Cloud 101 — NPTEL: Introduction to Machine Learning