

HRITIK RANA

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PROFILE SUMMARY

Machine Learning and NLP developer skilled in Python, TensorFlow, and Scikit-learn. Experienced in building, optimizing, and deploying AI models for real-world data-driven applications. I love to solve problems and build solutions on top of them.

EDUCATION

Bachelor of Technology in Computer Science & Engineering

Bansal Institute of Research & Technology, Bhopal

Expected May 2027

Senior Secondary Science & Mathematics

Anugrah Narayan Singh College, Patna, Bihar

TECHNICAL SKILLS

- **Programming:** Python, C++, JavaScript, Express.js
- **Frameworks & Libraries:** NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow, Keras
- **Machine Learning:** Regression, Classification, Clustering, Model Evaluation
- **Tools & Platforms:** Streamlit, Git, Excel, Github
- **Soft Skills:** Team Leadership, Problem Solving, Collaboration, Communication

EXPERIENCE

Team Leader & AI Developer

2025

Smart India Hackathon 2025

- Led a team of 6 in developing **PRAGATI AI**, an AI-powered multilingual content localization platform capable of translating and culturally adapting skill-training content across 22+ Indian languages.
- Implemented automated workflows supporting text, audio, and multimedia localization, enabling scalable processing of large training datasets.
- Deployed the full-stack application on Netlify with an optimized front-end for smooth user experience and real-time content localization.

PROJECT

Pragati AI: AI-Powered multilingual content localization platform

Aug 2025 – Sep 2025

Team Project (pragati.ai.netlify.app.)

- Led a team of 6 to develop an AI platform that can help in translating skill-training materials across 22+ Indian languages.
- Increased contextual translation precision by automating localization workflows and presented project at Smart India Hackathon 2025.

Time-Series Bitcoin Price Predictor

Mar 2025 – Apr 2025

- Built LSTM-based time-series forecasting model using 5 years of crypto data (50K+ entries).
- Used Jupyter Notebooks to analyze weekly performance metrics over 8 months, enabling ML model iterations that improved recommendation relevance by 22% for 10,000+ users.

FaceGuardAI

June 2025 – July 2025

- Real-Time AI Surveillance System – Built facial recognition, emotion detection, and helmet compliance using OpenCV (LBPH), TensorFlow/Keras CNN, and SQLite logging.
- Implemented ROI brightness analysis for helmet violations with live on-screen alerts, dynamic UI greetings, and timestamped identity/emotion data storage.
- Designed for public safety with future email alert integration, perfect for workplace monitoring and road compliance enforcement.

CERTIFICATIONS

- Geo-data Sharing & Cyber Security (IIRS, ISRO): Gained foundational knowledge in geo-data handling, secure data sharing practices, and cybersecurity protocols.
- Completed NPTEL certification in Introduction to Machine Learning with a score of 70%.
- Completed NPTEL certification in Object Oriented Programming with a score of 82%.