

Ranadeep Laskar

AI Developer

Bachelor of Technology- CSE AI/ML

Techno India University

Portfolio Website

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PROFESSIONAL SUMMARY

AI developer specializing in Python and PostgreSQL, pursuing CSE in AI/ML at Techno India University, Kolkata. Focused on scaling AgentOS for AI agents, developing full-stack applications with scalable automations, and competing in Kaggle challenges.

TECHNICAL SKILLS & CERTIFICATIONS

- **Kaggle Certifications (June 2025)**: Introduction to Programming, Python, Introduction to Machine Learning
 - Python fundamentals, Pandas, NumPy, supervised learning algorithms, model evaluation, scikit-learn
- **Hugging Face Certifications (June 2025)**: Fundamentals of LLM, AI Agents, and MCP
 - Transformers, fine-tuning, tokenization, AI Agents, MCP, smolagents, LlamaIndex, GAIA benchmark, Claude
- **Anthropic Certifications (June 2025)**: AI Fluency: Framework and Foundation Course
 - AI safety principles, responsible AI development, advanced prompt engineering, AI system design frameworks
- **GitHub Certifications (June 2025)**: GitHub Foundations
 - Git workflows, branching, merge conflicts resolution, GitHub Actions, GitHub Pages, repository management

PROJECTS

AgentOS - Modular Voice Assistant Platform

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- Engineered modular voice assistant with pluggable agents for extensible functionality.
- Designed scalable architecture supporting multiple agent integrations and real-time voice interactions.
- **Tech Stack**: Python, Flask, WebSockets, Electron.JS, JavaScript, Node.JS, NPM, Custom AI agents

TweetMCP - Twitter MCP Server with HuggingFace Integration

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- Developed a Model Context Protocol (MCP) server with 35+ tools for posting, engagement, analytics, and media management.
- Integrated HuggingFace models for: tweet generation, sentiment analysis, text enhancement, and translation.
- Implemented robust rate-limit handling, automatic retries, and bulk operations to safely scale API interactions.
- **Tech Stack**: Python, Twitter API v2, HuggingFace, FastAPI

Gradio MCP Playground - Hugging Face Hackathon Submission

June 2025

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- Collaborated with Sean Poyner on project, strengthening cross-cultural communication skills.
- Built interactive demo with Gradio to demonstrate Agents and MCP capabilities.
- **Tech Stack**: Gradio, Hugging Face Hub, Python, MCP, LlamaIndex, Git, GitHub

Face Recognition Model - Computer Vision Implementation

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- Constructed face recognition system using intermediate ML techniques and OpenCV for real-time detection.
- Implemented feature extraction algorithms and trained classifiers for accurate identification.
- **Tech Stack**: OpenCV, NumPy, Scikit-learn, PIL, Python, dlib

Brain Tumor Detection CNN - Computer Vision Application

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- Developed Convolutional Neural Network for brain tumor detection in medical images.
- Engineered advanced CNN architecture with batch normalization, dropout layers, and data preprocessing.
- **Tech Stack**: Keras, OpenCV, PIL, NumPy, Matplotlib, Scikit-learn, Python

EDUCATION

B.Tech - CSE in AI/ML

2024 - 2028 (Present)

Techno India University, Salt Lake Sector V, Kolkata

SGPA: 7.31

Machine Learning, Deep Learning, NLP, Computer Vision, AI, Neural Networks, Python, C, TypeScript

Bholananda National Vidyalaya, Barrackpore

CBSE 2024

Foundational Python Programming, MySQL, DBMS connections, Advanced Mathematics, Physics, and Chemistry

Douglas Memorial Higher Secondary School, Barrackpore

ICSE 2022

Computer Science: programming foundations with Java from 7th grade; built intermediate applications