Delhi, India
+91-8178246838
Mishra.abhishek2808@gmail.com

Abhishek Mishra

Portfolio | LinkedIn | GitHub

An AI Engineer specializing in transforming complex data into high-impact, full-stack applications. My work spans from building Transformer models for bioinformatics research to architecting decentralized GovTech platforms, with a focus on creating scalable, intelligent systems that solve real-world problems.

Skills and Languages

- **Languages:** TypeScript, Python, C++, Java
- **Backend:** NodeJS, Express, FastAPI
- **Databases:** PostgreSQL (PostGIS), MongoDB, Neo4j (GraphDB)
- **Frontend:** ReactJS, NextJS, React Native, Vite, JavaScript
- **AI/ML:** NLP, Transformers, MLOps, PyTorch, Hugging Face, OpenCV
- **MLOps:** MLflow, Airflow, Web Scraping (BeautifulSoup4)
- **Blockchain:** Hyperledger Fabric, Ethereum
- **Others:** Linux, Git, GitHub, Azure, Firebase

Education

- **Btech. Computer Science & Engineering,** Bhagwan Parshuram Institute of Technology, Delhi   **2024–2028 (ongoing)**
- **Certifications: Full Stack Developer Certificate** – **Udemy, 2025**

Projects

- **Bioline: AI-Powered eDNA Analysis Platform**
  - A revolutionary bioinformatics platform using a Transformer AI to decode environmental DNA (eDNA), automating species identification and discovery to accelerate global biodiversity monitoring.
  - **Tech Stack:** Python, PyTorch, DNABERT, Hugging Face, MLOps (MLflow, Airflow), Neo4j, FastAPI, React.
  - Deployed Website

- **RuraLens: Digital Twin for Smart Rural Governance**
  - A groundbreaking digital twin platform for transparent rural governance, fusing IoT data, AI-driven predictive maintenance, and a tamper-proof blockchain ledger to empower accountable community development.
  - **Tech Stack:** AI/ML (PyTorch, YOLO), Web3 (Hyperledger Fabric), PostGIS, Python, Node.js, React.
  - Deployed Website

- **AI Quiz Clash**
  - Launched a real-time 1v1 competition platform with an on-demand generative AI engine that crafts infinite, unique questions on any topic imaginable, creating a scalable and endlessly engaging knowledge-based experience.
  - **Tech Stack:** React, Vite, JavaScript, Firebase (Auth, Firestore), Google Gemini.
  - Deployed website

- **MOSDAC-AI**
  - An autonomous AI agent that scrapes, structures, and comprehends complex meteorological and oceanographic data, enabling natural language queries on vital climate information.
  - Tech stack: Python, Google Gemini API, **Web scraping,** regex, **data structuring**, **AI agent**, NLP, Beautifulsoup4 and FastAPI.
  - Deployed Website

Interests

- Exploring **neural networks**, NLP, and Retrieval-Augmented Generation (RAG). Focused on building a strong theoretical foundation for advanced AI/ML applications