# VIKRAM RANJAN

Email | GitHub | LinkedIn | Portfolio

## SUMMARY

Enthusiastic AI and Full-Stack Development professional with hands-on experience in building scalable web applications and intelligent systems. Skilled in Machine Learning, Deep Learning, NLP, and Computer Vision, with published research in these domains. Passionate about creating impactful solutions by combining data-driven intelligence with modern web technologies.

## WORK EXPERIENCE

### IT Associate
CIRC CUTS

June 12, 2024-July 19, 2024
Delhi

- Developed and deployed **IDS Calculator** to assess Inverted Duty Structure impacts using customs data at 6 or 8-digit HS code levels using HTML, CSS, Javascript, PHP.
- Designed the **SSDE Assessor** tool aligned with the Digital Competition Bill to evaluate enterprises for systemic significance in Core Digital Services.

### Full Stack Developer Intern
The ProEducator

June 31, 2025-August 6, 2025
Delhi

- Developed and maintained scalable web applications using **Next.js**, **TypeScript**, and **Material UI**, with backend APIs for seamless data operations.
- Implemented **real-time updates with SSE** and integrated **Cloudinary** for efficient media storage and management.
- Enhanced the **Admin Panel** by adding **role-based access control (RBAC)** to strengthen security and user management.

## PROJECTS

### Doctor Appoint Booking Website | MERN stack
GitHub | Live

- Built a **three-panel healthcare management system** (Admin, Doctor, User) using the **MERN stack**.
- Integrated **Cloudinary** for image storage, **Multer** for file uploads, and **JWT authentication** for secure access, with a responsive UI using **Tailwind CSS**.
- Developed an **Admin Panel** to manage doctor information and enabled users to **book appointments and filter doctors by specialization**.

### StreamSpeak | MERN stack
GitHub | Live

- Developed a **full-stack social media application** using **Node.js, Express, MongoDB, React, TanStack Query, and Tailwind**, featuring JWT authentication, protected routes, onboarding flow, and deployment readiness.
- Built core functionalities including **real-time chat, video calling, friends system, and customizable UI themes (32 options)**, with secure profile management and interactive features to **post text, images, and videos, like, and comment**.
- Followed best practices with **custom hooks, API testing for reliability**, and seamless **media sharing and engagement**, ensuring a scalable and user-friendly platform.

## EDUCATION

### Vivekananda Institute of Professional Studies (GGSIPU)
Bachelor of Technology- Artificial Intelligence and Data Science

Delhi, India

September 2022- August 2026

## TECHNICAL SKILLS

**Programing Language:** Java, JavaScript, Python, C

**Database:** MySQL, MongoDB, PostgreSQL

**Frameworks:** React, Next.js, Django, Flask,

**Tools/Technologies**: Git, GitHub, Postman, VS Code, Android Studio, Anaconda, REST APIs, API Testing

**Core Concepts**: Data Structures and Algorithm, Object-Oriented Programing, Operating System, Computer Networks

**AI/ML:** TensorFlow, PyTorch, Scikit-learn, YOLOv8, OpenCV, NLTK, Deep Learning, Machine Learning, Computer Vision, Natural Language Processing

## PUBLICATIONS (Google Scholar)

- Real time image processing and smart healthcare using eXplainable artificial intelligence (XAI).
- Analyzing cyberbullying behavior in social media using supervised machine learning & natural language processing.
- Performance Evaluation of Various Machine Learning Models and Its Implications for Informed Air Policy Decisions: A Comparative Study for Delhi.