VIKRAM RANJAN

B-Tech in Artificial Intelligence & Data Science

✉ Email   ⊕ Github   in LinkedIn   🔗 Portfolio

SUMMARY

Enthusiastic AI and Web Development professional with strong proficiency in Machine Learning and Full-Stack development. Passionate about solving real-world problems using machine learning, deep learning, and natural language processing. Interested in building intelligent systems and innovative web interfaces that drive impactful user experiences.

WORK EXPERIENCE

CUTS Institute for Regulation & Competition (CIRC)   June 20, 2024 – July 19, 2024

- Built the **IDS Calculator** to assess Inverted Duty Structure impacts using customs data at 6 or 8-digit HS code levels.
- Built the **SSDE Assessor** tool aligned with the Digital Competition Bill to evaluate enterprises for systemic significance in Core Digital Services.

SKILLS AND CERTIFICATES

- **Technical Skills:** HTML ,CSS, SQL, Java, Python, JavaScript, MERN, Flutter, Django, Flask, NextJs
- **Languages:** English, Hindi
- **Tools** : Git, VS code, Android Studio, Anaconda, Postman, Cloudinary, Netlify
- **Soft Skill**: Problem Solving, Technical Writing, Team Work, Deadline-oriented, Continuous learner
- **Certifications:** Udemy Fundamentals of Machine Learning, CDAC Big Data and Data Science Bootcamp

PROJECTS

Doctor appointment website (MERN)   ⊕ Github

The Doctor Appointment Website is a three-panel system for admins, doctors, and users, ensuring seamless healthcare management. The project uses **Cloudinary** for image storage, **Multer** as middleware for file uploads, **JWT** authentication for secure access, **Tailwind** for responsive UI.
- The admin panel allows management of doctor information.
- Users can book appointments and filter doctors based on specialization.

Task Master   ⊕ Github

A cross-platform Task Management Web Application built with **MERN** stack, supporting real-time CRUD operations, secure login, real time task status.
- User Authentication using **JWT** (Login & Registration)
- Task report analysis using **React Charts**.

Emotion Detection   ⊕ Github

Developed a real-time object detection system using YOLOv8 and Flask, enabling the identification of 15 distinct objects and recognition of seven facial expressions in live video streams.
- Deployed as a responsive web application using **Flask**, **HTML**, **AJAX**, and **CSS** for real-time user interaction.
- Supports webcam and video input, delivering annotated frames with detected objects and classified expressions directly in the browser.

EDUCATION

Bachelor of Technology in AI-DS Candidate   Sep 2022
- GGSIPU | VIPS-TC , Delhi
- **8.98**/10 CGPA

PUBLICATIONS   Google Scholar

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