VIKRAM RANJAN

B-Tech in Artificial Intelligence & Data Science

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SUMMARY

Enthusiastic AI and Web Development professional with strong proficiency in React.js, Python, 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.

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

PROJECTS

Doctor appointment website (MERN)   🔗 https://docgo-frontend.onrender.com

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.

Emotion Detection   🔗 https://github.com/Vikram-353/Face-Expression

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.

Task Manager   https://github.com/Vikram-353/Task-Manager/

A cross-platform Task Management App built with **Flutter** and **Django**, supporting real-time CRUD operations, secure login, and smart alerts for missed deadlines.
- User Authentication using **SimpleJWT** (Login & Registration)
- Task Management with CRUD operations and advanced filtering (status, priority, due date)
- Smart Notifications for overdue tasks using local alerts

EDUCATION

Bachelor of Technology in AI-DS Candidate   **Sep 2022**
- GGSIPU | VIPS-TC , Delhi
- **8.92**/10 CGPA

ADDITIONAL INFORMATION

- **Technical Skills:** MERN, SQL, Java, Python, Flask, Javascript, Machine Learning, NLP, Flutter, Django, Dart
- **Languages:** English, Hindi
- **Tools** : Git, VS code, Android Studio, Anaconda, git, Postman
- **Certifications:** Udemy Fundamentals of Machine Learning, CDAC Big Data and Data Science Bootcamp