Aman Kumar Jha

(+91)8076407106 | amanjha439@gmail.com | LinkedIn | GitHub

EDUCATION

VIT Bhopal University   Bhopal, MP
Bachelor of Technology in Computer Science and Engineering – CGPA: 7.51   *Nov 2022 – Present*

Cambridge School Noida (CBSE)   noida,Uttar pradesh
Senior Secondary (12th) – 84.4%   *2021*

Cambridge School Noida (CBSE)   noida,Uttar pradesh
High School (10th) – 94.6%   *2019*

TECHNICAL SKILLS

Languages: C++, Python, JavaScript
Web: HTML, CSS, ReactJS, Node.js, Express
Database: MySQL, MongoDB
Tools/Platforms: Git, GitHub, Excel,PowerBi
Libraries: Pandas, NumPy, Matplotlib,Streamlit
CS Fundamentals: Data Structures and Algorithms

PROJECTS

Vtop Auto-CAPTCHA Extension | MERN Stack, python libraries, javascript [LINK]
- .
- Automated CAPTCHA Solving: Instantly detects and solves CAPTCHAs, eliminating the need for manual entry. Local Flask Backend: A high-performance, local server handles complex machine learning inference. Multi-Environment Support: Easily switch between development and production modes with a clear configuration system. Easy-to-Use: Simple setup process designed to get you running in minutes.
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Gestura | OpenCV, MediaPipe,Ultralytics YOLO, NumPy [LINK]
- Gestura represents a comprehensive Python-based framework for advanced touchless interaction, integrating multiple cutting-edge technologies into a cohesive system..
- The system's modular design allows for flexible deployment in various environments, from educational institutions to healthcare facilities, while maintaining consistent performance on consumer-grade hardware without requiring specialized GPUs..
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AI SLEEP SCHEDULING | MongoDB, Express.js, React.js, Node.js [LINK]
- Built a full-stack MERN application that lets users log sleep/wake times, visualizes sleep patterns (average duration, variance) with Recharts, and generates personalized bedtime recommendations based on 90-minute sleep cycles. <200ms.
- Implemented a RESTful API in Node.js/Express with MongoDB/Mongoose for data storage; integrated React.js front end with Axios for CRUD operations and dynamic chart updates; managed environment/config via dotenv. .

ASL to Text Converter | Python, Tensorflow, openCV, Tkinter, Numpy [LINK]
- Developed a real-time ASL-to-Text Converter using a custom dataset and CNN model to recognize A–Z gestures with high accuracy.
- Integrated OpenCV, Pillow, and Tkinter for live gesture detection, text display, and user-friendly GUI.
- Enhanced reliability with spell-checking and preprocessing techniques for improved recognition accuracy.

CERTIFICATIONS

Data science – SBIAP Education   *Jan 2025 – Jun 2025*

EXPERIENCES

- **INDIAN SPACE LAB**: attended The ISL Winter Internship Technical Training Program conducted by India Space Lab From December 2024 To January 2025. The participant has successfully completed the training programs in Space Science and Technology, which includes specialized modules in Advanced Drone Technology, CanSat and CubeSat Satellite Programs, Astronomy, and Space Entrepreneurship.