Dishank Mittal

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Education

VELLORE INSTITUTE OF TECHNOLOGY   VELLORE, TN
B.TECH COMPUTER SCIENCE AND ENGINEERING (IOT) (CGPA: 8.02)   2021 - 2025
D.V.V   SUJANGARH, RJ
12TH RBSE (79%) – 10TH RBSE (79%)   2020

Technical Skills

- **Languages:** Java, Python, SQL, HTML, React
- **Frameworks**: OpenCV, MediaPipe
- **Tools**: Power BI, Jupyter Notebook, OOPS

Projects

AIR CANVAS   MAY' 24- JULY'24
- Built an interactive application **using Python, OpenCV, Numpy and MediaPipe to allow users to draw digital art with** hand gestures captured via webcam
- Implemented real-time hand tracking for drawing on the digital screen, color control, tracking brush movement, and clearing canvas
- **Resolved hand wobble issue** by implementing a tolerance threshold, which corrects deviations based on historical movement patterns.

POWERBI-HR-DASHBOARD   JAN' 24- FEB' 24
- Developed an HR analytics dashboard by **cleaning and analyzing a 22,000+ row dataset (2000-2020) using SQL** and visualized insights in **Power BI**.
- **Identified patterns** such as the marketing department's highest turnover rate and gender representation across job titles.

GESTURE CARE FOR ELDERLY   SEPT'24-DEC24
- Developed an **AI-driven smart home solution** enabling elderly users to control appliances and send emergency alerts effortlessly with intuitive hand gestures.
- Leveraged MediaPipe for precise real-time hand tracking and **TensorFlow** for robust gesture recognition, achieving a recognition accuracy of 95%. Integrated with IoT, the system ensured seamless communication between devices and caregivers, **delivering response times under 100ms.**
- This innovation enhanced accessibility, safety, and independence, empowering elderly users to lead more autonomous lives in modern smart home environments.

Experience

DATA SCIENCE INTERN   DEC' 23- FEB' 24
ASTRIX DIGITAL   REMOTE
- **Analyzed, managed,** and **visualized data** for front-line and technical teams.
- **Generated insights** and recommendations for data-driven **decision making.**
- Partnered with external projects on data needs and management.

IOT ENGINEER INTERN   AUG' 23-SEPT23
JINDAL STEEL AND POWER   RAIGARH, CG
- Managed implementation, **testing** and **documentation** of software solutions on hardware.

WEB DEVELOPER   OCT'23-NOV'23
WEBSITE DONEE   SUJANGARH
- Establishing and guiding the website's architecture designing, developing, and maintaining Business, E-commerce Website Based on **WordPress**
- Ensuring **high performance** and **availability**, and managing all technicalaspects of the CMS.Communicating design ideas using user flows, process flows, site mapsand wireframes.

Achievements

- **Awarded** with **Top Coder** tag from a pool of over **10k+ students** in my college.
- Was in top **10 teams** in college for the **Smart India Hackathon**.