Yash Wathrey

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SUMMARY

Detail-oriented Data & Visualization Specialist with a strong foundation in **Python**, **Machine Learning**, and **Business Intelligence (BI)** tools. Proficient in developing interactive dashboards using **Tableau, Power BI**, and **Excel** to deliver actionable insights. Proven ability to create AI-powered and IoT solutions that solve real-world problems. Adept at **SQL**, data integration, and automation, with a focus on user-centric design and data-driven decision-making.

EXPERIENCE

Python Developer | **Create Shala, Jabalpur** | **Oct '24 - Apr '25**

- Developed Python-based applications that automated data handling processes, improving system operations and efficiency.
- Designed and optimized SQL queries to generate structured reports, enhancing data accessibility for stakeholders.
- Supported the integration of BI solutions with backend Python scripts to streamline data flow and reporting.
- Collaborated with stakeholders to gather requirements and deliver data-driven insights, contributing to a user-centric design approach.

EDUCATION

B.Tech | **Hitkarini College of Engineering and Technology** | CGPA: 7.5 | Year: 2025

PROJECTS (Code available on GitHub)

1. Smart Glasses for the Blind (YOLOv3 + Raspberry Pi 5)

- Engineered AI-powered smart glasses capable of real-time object detection and text reading for visually impaired users.
- Integrated **YOLOv3** with a **text-to-speech (pyttsx3)** system to provide auditory feedback for detected objects and text.
- Developed a voice-guided navigation system using **YOLO-lite** and the **Google Maps API** to assist with independent mobility.

2. Finger Counter using OpenCV

- Built a computer vision application that detects and counts fingers in real time using a laptop camera.
- Applied advanced image processing, contour detection, and gesture recognition to create an interactive system.
- Showcased data interpretation and visualization by using image overlays, aligning with BI visualization principles.

3. Robotic Arm with Hand Gesture Control

- Constructed a gesture-controlled robotic arm using four servo motors and **Python-Arduino** integration.
- Designed an intuitive gesture recognition system that translates hand movements into precise robotic actions.
- Demonstrated real-time data capture and control, highlighting effective UX design for physical systems.

TECHNICAL SKILLS

- **Data Analysis & BI:** Tableau (Certified) , Power BI, Excel, SQL (Query Optimization, ETL, Data Pre-processing)
- **Machine Learning:** Scikit-Learn, Pandas, NumPy, Tensor Flow (Basic), Matplotlib
- **Programming Languages:** Python, HTML, CSS, JavaScript
- **Tools & Frameworks:** GitHub, OpenCV, Media Pipe, Arduino IDE, GenAI, Power BI, Excel
- **Soft Skills:** Communication, Teamwork, Problem-Solving
- **Languages:** Hindi (Native), English (Fluent)