

# JAY KUMAR

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## BHARAT PANCHAYAT TRANSPARENCY

--- **Bharat Panchayat Transparency System** is a digital solution designed to ensure transparency, accountability, and progress tracking of government projects at the village level. It empowers **citizens**, **officers**, and **contractors** with real-time monitoring, analytics, and feedback capabilities — all in one modern platform.

## AI POWERED SMART TRAFFIC MANAGEMENT SYSTEM

--- Developed an **AI-powered intelligent traffic management system** that dynamically controls traffic signal timing using **real-time vehicle detection**.

Implemented **YOLO-based computer vision** to identify traffic density and prioritize **emergency vehicles** for faster clearance.

Designed an interactive **Streamlit dashboard** with live analytics, signal direction visualization, congestion monitoring, and voice alerts.

The system supports **both real-world camera input and simulated traffic environments**, making it suitable for **smart city and urban traffic optimization**.

## AI-BASED CRITICAL MINERAL TRADE FORECASTING SYSTEM

---Built a data analytics and forecasting system that applies statistical analysis and time-series modeling to India's mineral import-export data. The platform visualizes trade trends, dependency ratios, and projected future risks through an intuitive dashboard for policy and decision support

## Certifications

Professional Data Analytics Certificate - Google

Python for Data Science, AI & Development - IBM

Concepts in Python: Loops, Functions and Returns - Coursera Project Network

Technology Job Simulation - Deloitte

AI for Beginners - HP

Business Email - HP

Programming in Python – Meta

## Hobbies & Interests

Watching Movies , Reading Books , Travelling And Explore New Places ,

Playing Games