MANAS SHARMA

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PROFILE

Results-driven 3rd-year B.Tech CS student, specializing in ML, IoT, and software development, with hands-on experience in real-world application development, including a self-cleaning glasses system and AI-powered traffic monitoring.

WORK EXPERIENCE

Prodigy InfoTech | *December, 2024 – January, 2025*
Machine Learning Intern
 • Developed and optimized **5+** ML models, enhancing predictive accuracy by **20%+**.
 • Applied machine learning algorithms to analyze **10k+** data points across multiple projects.

PATENT

Self-Cleaning Glasses Case System
Application Number: 202421032123 | *Publication Date: 23rd April 2024*
 • Invented and patented a self-cleaning glasses case system using UVC light, automating disinfection by **99%+.**
 • Integrated a control unit with a mobile app, enabling remote operation, real-time monitoring, and automated scheduling.

PROJECTS

Advanced Traffic Monitoring and Forecasting System | *Python, YOLO*
• Built a real-time traffic monitoring system using YOLO, achieving **95%+** accuracy in vehicle detection.
• Fine-tuned deep learning models, improving object detection and tracking efficiency by **30%**.
• Applied time-series analysis and predictive modeling to forecast future traffic patterns with **85%** accuracy.
• Processed and analyzed **50k+** traffic data points, extracting insights to optimize model performance.

Breast Cancer Detection System | *Python, TensorFlow, Flask, React*
• Developed an AI-powered breast cancer detection system, achieving **92.3%** accuracy in classification.
• Trained a deep learning model on **50k+** medical images, enhancing early detection and diagnosis.
• Built a **Flask-based API**, enabling seamless integration between the ML model and React frontend.
• Designed an interactive **dashboard**, allowing users to upload scans and receive **real-time predictions.**

Diabetes Management App | *Java, XML, Android Studio*
• Developed a mobile app with **6+** features for tracking blood glucose levels and medication schedules.
• Implemented real-time reminders, reducing the chances of missed medication by **40%** in test simulations.
• Designed a history tracking feature to log and visualize past glucose readings for better analysis.
• Optimized UI/UX, enhancing navigation speed by **35%**, improving user experience.

SKILLS

 • **Tech Stack:** Machine Learning, Deep Learning, Software Development, Computer Vision, IoT, Full-Stack Development, Model Optimization, Predictive Analytics, Data Science, Neural Networks, Database Management, API Development
 • **Languages:** Python, C/C++, Java, SQL, XML

EDUCATION

Bachelors of Technology in Computer Science and Engineering   (2022-2026)
Specialisation in Health Informatics
Cumulative GPA- 8.46, VIT Bhopal University, Bhopal, 466114, M.P. (Provisional Graduation in 2026)
Delhi Public School, Sushant Lok
• XII (CBSE) – 82%, Delhi Public School, Sushant Lok,122001, Gurugram   (2021 – 2022)
• X (CBSE) – 90.8%, Delhi Public School, Sushant Lok,122001, Gurugram   (2019 – 2020)

CERTIFICATIONS AND POSITIONS

• Led a team of **15+** members as Head of Design & Graphics of Feedbox Club,organizing **5+** technical events and workshops.
• **Certifications:** British Airways Data Science Job Simulation (Forage), Project Management Fundamentals (Coursera), Bits & Bytes of Computer Programming (Coursera),