Shivam Kumar Jha

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Objective

Third-year B.Tech student passionate about leveraging technology to solve real-world problems. Seeking opportunities to apply skills in robotics, web development, AI/ML, and cybersecurity.

Skills

Programming: C/C++, Java, Python, Kotlin, Rust, C# **Frameworks Tools:** SolidWorks, ROS, Ansys, MERN, IoT, PHP
Specializations: AI/ML, Cybersecurity, Web/App Development, Database Management, Robotics

Experience

Intern, Kodacy, Delhi, India   May 2023 – June 2023

- Built robotics solutions, including line-following bots and RC cars using Arduino/ESP32/Raspberry Pi and ROS.
- Enhanced bot-building skills through modular ML projects.

Intern, National Informatics Center (NIC), Delhi, India   July 2024 – Sept 2024

- Developed secure backend systems for ExamPortal and National Awards Portal using AI/ML.
- Managed real-world production systems and dynamic project iterations.

Projects

Catalog Craft   https://github.com/Shivoo29/CatalogCraft/

- Digitized Indian product catalogs with 1000+ SKUs, leveraging text, voice, and image input in Indic languages.
- Implemented barcode scanning, voice input, YOLO-based item detection, and multilingual chatbot support.
- Developed using React, Django, PostgreSQL, and integrated advanced data-handling mechanisms.

Smart LED Display Project   https://github.com/Shivoo29/Smart$_L ED_D isplay$

- Designed and built a P10 LED display to showcase real-time data like time, temperature, AQI, and PM2.5 levels.
- Developed a customizable information display system with real-time clock synchronization.

Microsoft ML-Learnings   https://github.com/Shivoo29/Microsoft-ML-Learnings

- Documented ML learnings and projects from the Microsoft ML Skilled Challenge, featuring step-by-step tutorials.
- Gained expertise in Python, Jupyter Notebooks, Azure ML Studio, Scikit-learn, and real-world ML model deployment.

Temperature Control System   https://github.com/Shivoo29/Thermoelectric-Cooling-System

- Developed a temperature control system using an ESP32, rotary encoder, OLED display, and PID-controlled Peltier cooler.
- Implemented PWM management and real-time temperature visualization to maintain precise environmental conditions.

4-Day AI Odyssey   https://github.com/Shivoo29/Amazon$_s tudent_r esource - is - mine - now - hahahaha - - - - -$

- Explored state-of-the-art AI models, including BLIP2, CLIP, LLaVA, and VLM, for multimodal learning and image analysis.
- Designed a pipeline combining OCR, image captioning, and visual reasoning under strict competition deadlines.

Education

B.Tech in Computer Science, Maharaja Agrasen Institute of Technology   Expected 2026 Relevant Coursework: OOPS in C++/Java, DBMS, DSA, Compiler Design, Operating System,
Kendriya Vidyalaya, R.K. Puram, New Delhi 2010 – 2022 Achievements: Math Olympiad (2x Winner), Science Olympiad (1x Winner)

Leadership & Activities

- Founding Member and President of BYTE, a leading college tech society; organized events and guided research projects.
- Led teams in 40+ hackathons, showcasing leadership and achieving notable successes.
- Participated in 40+ hackathons; honed skills in AI/ML, IoT, cybersecurity, and robotics.
- Explored interests in particle physics and silicon chip technologies.