Shantnu Kumar

Roll No.:23BRS1164
B.Tech in Computer Science and Engineering
(Specialization: Artificial Intelligence & Robotics)
Vellore Institute of Technology, Chennai

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	Vellore Institute of Technology, Chennai	7.85(Current)	2023-2027
Senior Secondary	Bihar School Examination Board (BSEB), Bihar Sharif	68.6%	2023
Secondary	Don Bosco Academy, Patna- ICSE BOARD	82.6%	2021

INTERNSHIP AND WORK EXPERIENCE

- **humanIT solutions pvt Lt** *May 2025 - July 2025*
  FrontEnd Developer Bangalore
  - Developed responsive UI screens for GST billing, inventory tracking, and customer credit ledger using HTML, CSS, and Bootstrap.
  - Improved user experience by implementing mobile-friendly layouts, dropdowns, low-stock color alerts, and clean invoice tables.
  - Streamlined navigation and layout across modules, and fixed UI bugs to enhance usability and visual consistency.

- **VIT Chennai** *May 2025 - Present*
  Summer Research Internship Chennai, India
  - Developing a multi-camera sports analytics system using **YOLOv8**, **OpenCV**, and **Python** for detecting players, jersey colors, and ball positions
  - Analyzing **goal patterns** and **team formations** using object tracking and spatial data

PROJECTS

- **Electro Finder – Smart Choice Finder** *Jan 2025 – May 2025*
  Developing a web-based platform to compare electronic products online and offline across India
  - * Built a budget-based filtering system to recommend the best electronic products within a user's price range
  - * Integrated brand and category filters for devices like laptops, smartphones, and refrigerators
  - * Implemented review aggregation and price comparison across multiple e-commerce platforms
  - * Designed a user-friendly interface to ensure smooth navigation and informed decision-making
  - * Tools: JavaScript, Node.js, Express, MongoDB, Puppeteer, HTML/CSS

- **Mapped Auto-Restock AI Bot** *July 2025 – Present*
  Building a voice-controlled robot to restock items using store mapping
  - * Designed a mapped AI-powered robot to navigate retail environments and locate specific products based on voice commands
  - * Implemented object detection using **YOLO** and **OpenCV** for identifying products and empty shelf positions
  - * Integrated **ROS (Robot Operating System)** for path planning, navigation, and robotic arm coordination
  - * Tools: Python, OpenCV, YOLO, ROS, Speech Recognition

KEY COURSES TAKEN

- Data Structure, Algorithms, JAVA, DBMS, Machine Learning, Artificial Intelligence, Operating System

TECHNICAL SKILLS

- **Programming:** C/C++, Python, Java, SQL
- **Tools & OS:** Git, Jupyter Notebook,Google Colab, Linux, Windows
- **Libraries/Frameworks:** Pandas, Numpy
- **Web Skills:** HTML/CSS/JS, ReactJS

POSITIONS OF RESPONSIBILITY

- **Managment Team, Member,**VIT Finance and Management Club *Present*

ACHIEVEMENTS

- **Hackathon Participation**
  Participated in multiple-hackathons
- **Hostel Premier League – Badminton**
  Secured Top 10 rank in badminton during the annual Hostel Premier League tournament,VIT *2024*