

An AI enthusiast passionate about solving real-world problems using advanced AI/ML frameworks and IoT technologies, with a proven track record of delivering innovative solutions and leading impactful initiatives.

### Career objective:

Seeking a position in the field of **Artificial Intelligence and Generative AI** where I can contribute to innovative solutions, expand my deep learning capabilities, and grow within a forward-thinking technology team.

### EDUCATION

#### B. TECH Artificial Intelligence and data science

Vishwakarma university  
2023-27

### SKILLS

- AI/ML
- Deep Learning
- IoT
- Data analysis
- Project management
- Python
- C, C++
- Java
- DBMS
- Power BI
- Business intelligence
- Web Development

### Personal details and Contact

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# Vedant Pandhare

STUDENT INNOVATOR

### PROJECTS

#### AI/ML PROJECTS.

- **Hand Gesture Detection for Alert Systems:** Designed an advanced model to recognize hand gestures for use in alert systems, improving human-machine interaction and ensuring proactive safety measures.
- **Time Series Forecasting for Crop Yield:** Optimized a forecasting model leveraging historical time series data to accurately predict crop yields. This project aimed at enabling farmers and market stakeholders to make informed decisions for better resource allocation and timely market intervention.
- **Anomaly Detection:** Developed a robust real-time Anomaly detection system using popular frameworks like OpenCV and TensorFlow, which enhanced industrial systems with efficient performance and guaranteed smooth workflow.
- **Frame Interpolation on Raspberry Pi with Hailo-8L:** Designed the system to process incoming video feed on-the-fly, ensuring live interpolation without latency, making it suitable for real-time applications like surveillance and streaming.
- **Document Summarizer (NLP Project):** Built an NLP-based web application that automatically summarizes long and complex legal documents, extracting critical sections such as eligibility, deadlines, scope of work, and financial terms.

#### IOT AND EDGE-COMPUTING PROJECTS.

- **Raspberry Pi-Based Applications:** Conceptualized, designed, and deployed innovative IoT solutions that utilized Raspberry Pi and edge computing capabilities for real-time data acquisition and processing.
- **AI-Powered Industrial Drones:** Spearheaded the development of AI-driven industrial drones. These drones utilized real-time AI capabilities for monitoring, inspection, and data analysis, providing cutting-edge solutions for complex operational environments

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## INTERNSHIPS AND EXPERIENCE

### Event Occurrence Monitoring for Turbine Systems – Wilo Mather & Platt Pumps Pvt. Ltd.

- As part of a project with Wilo Mather & Platt, we developed a real-time event detection and condition monitoring system for industrial turbines.
- Utilized an MPU-6050 accelerometer with Raspberry Pi to monitor vibration patterns and detect anomalies.
- Built a web-based dashboard to visualize real-time line and scatter graphs of sensor data for maintenance teams.
- Application: Aimed at predictive maintenance of rotating equipment, enabling downtime reduction and improved operational efficiency in water pumping stations.

### Age Detection from Facial Images – Kria Pvt. Ltd.

- At Kria Pvt. Ltd., we worked on developing an AI-based age verification system focused on enhancing security and enforcing underage entry protocols in sensitive environments.
- Designed and trained a Convolutional Neural Network (CNN) to accurately estimate whether an individual is above or below 18 years of age using real-time facial image input.
- Implemented face detection and preprocessing pipelines to support live camera feeds and ensure accuracy in dynamic lighting conditions.

### Dental X-Ray Disease Detection – Spearson Technologies:

- At Spearson Technologies, we contributed to the development of an AI-powered dental diagnostics tool aimed at automating disease detection in dental X-rays.
- Leveraged YOLOv8 and CNN architectures to detect common conditions like cavities, fillings, impacted teeth, implants, and dental defects.

## LEADERSHIP AND MANAGEMENT:

### Event Coordinator – National Science Day 2024

- **Vishwakarma University**
- Successfully organized **National Science Day 2024**, bringing together students to celebrate scientific innovations and discoveries.
- Led a core team responsible for **event planning, logistics, communication, and execution**, ensuring smooth coordination across multiple departments.
- Curated sessions including **tech exhibitions, project showcases, expert talks, and interactive science activities** to promote scientific curiosity and innovation.
- **Workshops:** Successfully led multiple hands-on hardware workshops, mentoring participants in assembling, programming, and deploying hardware systems for various real-world applications.

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## ACHIEVEMENTS AND HACKATHONS

- **1st Prize – Vishwakarma Internal Hackathon (IoT Domain)**  
Led a team to victory by developing an innovative IoT-based solution under time constraints. The project focused on real-time sensor data monitoring and automation, showcasing strong technical and problem-solving skills.
- **Nominated for Smart India Hackathon (SIH) 2024**  
Selected for the next round of **Smart India Hackathon 2024** after qualifying at the internal level. Contributed to solving a real-world industry problem using emerging technologies, with a focus on scalability and innovation.
- **Participated in PICT Inc'25 IMPETUS Hackathon**  
Competed in the national-level hackathon organized by **PICT Pune**, developing a functional prototype within 24 hours. Demonstrated quick ideation, teamwork, and the ability to work under pressure in a high-stakes innovation environment.

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