

# Vedant Pandhare

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## EDUCATION

### Vishwakarma University

Bachelor of Technology in Artificial intelligence and Data science

Pune, Maharashtra

Aug. 2023 – May 2027

### Shri H.B. Girme Junior college Pune, Maharashtra

Post SSC Secondary education in Science (PCM)

Aug. 2021 – May 2023

## EXPERIENCE

### Machine learning Intern

WILO Mather and Platt Pumps Pvt. Ltd

June 2024–Dec. 2024

Pune, Maharashtra

- Built an Anomaly detection IoT-based system to monitor vibrations using MPU-6050 sensor.
- Engineered data pipeline with Raspberry Pi for real-time acquisition.
- Executed Flask-based web dashboard for monitoring and visualization
- Implemented line and scatter plots for trend and anomaly detection.

### AI student Intern

Southern command, Vishwakarma university

Jan. 2024–June 2024

Pune, Maharashtra

- Developed secure AI inference pipeline for a defense-grade drone system
- Integrated Raspberry Pi with Hailo 8L AI accelerator for edge deployment
- Bridged hardware and AI capabilities for mission-critical tasks.

## Industrial PROJECTS

### Age & Gender recognition for Entry gate Access control

| CNN, OpenCV, Tensorflow, Flask, React, SQL

Jan 2025 – May 2025

- CNN-based model to classify age groups and gender from images for access control.
- Trained on large facial image dataset for accuracy.
- Visualized GitHub data to show collaboration.
- Used Celery and Redis for asynchronous tasks.

### Spine X-ray Analysis | YOLOV8, CNN, OpenCV, Tensorflow, Docker

Nov. 2024 – May 2025

- Trained YOLOv8 and CNN models on 10,075 annotated X-ray images.
- Detected spinal disc degenerations and diseases with high accuracy.
- Applied OpenCV for preprocessing and augmentation for various different classes of the degenerations.
- Published and presented outcomes at ICAISI-25 international conference.

<https://doi.org/10.1201/9781003654049-50>

## PROJECTS

### Time Series Forecasting for Crop Yield | ML, Data Analytics, Prophet, ARIMA, React

May. 2024 – Nov. 2024

- Forecasting model leveraging historical time-series crop data.
- Applied ML techniques to predict yield with improved accuracy.
- Enabled farmers and stakeholders to plan resource allocation effectively.
- Published and presented outcomes at ICAISI-25 international conference.
- Nominated for SIH Hackathon – 24

### Frame Interpolation (Edge AI) | Raspberry Pi 5, Hailo 8L, ONNX

Sept. 2024 – Dec. 2025

- A Real-time video frame interpolation using ONNX Runtime.
- Deployed on Raspberry Pi 5 integrated with Hailo 8L AI accelerator.
- Optimized pipeline for low-latency live video input/output.
- Enhanced video smoothness for edge AI applications.

<b>Tender Document Summarizer</b>   NLP, NLTK, hugging face, Flask, Javascript, MongoDB	Feb. 2025 – July 2025
<ul style="list-style-type: none"> <li>- Designed NLP pipeline to summarize and extract key insights from tender PDFs.</li> <li>- Used Transformers, NER, and preprocessing techniques for entity recognition.</li> <li>- A summarization model with Flask for interactive use.</li> <li>- Automated extraction reduced manual document review time.</li> <li>- Published a new approach to Text summarization in conference ICSIAIML – 25 (ISSN - 1951-6851)</li> </ul> <a href="https://doi.org/10.2991/978-94-6463-948-3_50">https://doi.org/10.2991/978-94-6463-948-3_50</a>	
<b>Resume Verification &amp; Internship Allocation</b>   NLP, hugging face, NLTK, SpaCy, Git	June. 2025 – present
<ul style="list-style-type: none"> <li>- Automated extraction of education, skills, and projects from resumes.</li> <li>- A NLP classification to map candidates to suitable internships.</li> <li>- Reduced manual evaluation by applying ML-based allocation and recommendation system.</li> <li>- Designed as a scalable multi-candidate internship recommendation system for recruiters.</li> </ul>	
<b>AI Coach – CyberSec Academy</b>   Agentic AI, NLP, Recommender Systems, Git	May 2025 – Present
<ul style="list-style-type: none"> <li>- An AI-powered learning assistant for cybersecurity skill development.</li> <li>- Designed agentic AI system to analyse test performance of learners.</li> <li>- Recommended personalized cybersecurity courses and learning paths.</li> <li>- Improved learner engagement and outcomes with adaptive feedback.</li> </ul>	

## TECHNICAL SKILLS

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- **Languages:** Python, C/C++, SQL, JavaScript, HTML/CSS, R
- **Frameworks:** React, Node.js, Neural networks (CNN), TensorFlow, Keras, PyTorch (basic exposure), YOLO V8, hugging face (NLP), Raspberrypi OS, ONNX, MongoDB, ARIMA, Prophet.
- **Developer Tools:** Git, Docker, VS Code, Anaconda, Google Cloud Platform, Cursor, Postman, PyCharm, IntelliJ, Eclipse, Jupyter Notebook, Google Colab, Kaggle (for model training & deployment), RStudio
- **Libraries:** pandas, NumPy, Matplotlib, seaborn, Open CV, NLTK, SpaCy, PyPDF, Image Data Generator

## Soft SKILLS

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- **Leadership & Team Management** – Directed a core team to plan and execute National Science Day 2024 at Vishwakarma University, ensuring seamless coordination across multiple departments.
- **Organizational & Planning Skills** – Oversaw event logistics, scheduling, and communication, successfully managing diverse activities including tech exhibitions, project showcases, and expert sessions.
- **Collaboration & Stakeholder Management** – Coordinated with faculty, students, and external experts to deliver impactful sessions promoting scientific innovation.
- **Communication Skills** – Effectively conveyed ideas and delegated responsibilities to the organizing team, ensuring clarity and smooth execution of activities.