

# Vedant Pandhare

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## EDUCATION

<b>Vishwakarma University</b> <i>Bachelor of Technology in Artificial intelligence and Data science</i>	<i>Pune, Maharashtra</i> <i>Aug. 2023 – May 2027</i>
<b>Shri H.B. Girme Junior college Pune, Maharashtra</b> <i>Post SSC Secondary education in Science (PCM)</i>	<i>Aug. 2021 – May 2023</i>

## EXPERIENCE

<b>Machine learning Intern</b> <i>WILO Mather and Platt Pumps Pvt. Ltd</i>	<i>June 2024–Dec. 2024</i> <i>Pune, Maharashtra</i>
<ul style="list-style-type: none"><li>Built an Anomaly detection IoT-based system to monitor vibrations using MPU-6050 sensor.</li><li>Engineered data pipeline with Raspberry Pi for real-time acquisition.</li><li>Executed Flask-based web dashboard for monitoring and visualization</li><li>Implemented line and scatter plots for trend and anomaly detection.</li></ul>	

  

<b>AI student Intern</b> <i>Southern command, Vishwakarma university</i>	<i>Jan. 2024–June 2024</i> <i>Pune, Maharashtra</i>
<ul style="list-style-type: none"><li>Developed secure AI inference pipeline for a defense-grade drone system</li><li>Integrated Raspberry Pi with Hailo 8L AI accelerator for edge deployment</li><li>Bridged hardware and AI capabilities for mission-critical tasks.</li></ul>	

## Industrial PROJECTS

<b>Age &amp; Gender recognition for Entry gate Access control</b>   CNN, OpenCV, Tensorflow, Flask, React, SQL	<i>Jan 2025 – May 2025</i>
<ul style="list-style-type: none"><li>CNN-based model to classify age groups and gender from images for access control.</li><li>Trained on large facial image dataset for accuracy.</li><li>Visualized GitHub data to show collaboration.</li><li>Used Celery and Redis for asynchronous tasks.</li></ul>	

  

<b>Spine X-ray Analysis</b>   <i>YOLOV8, CNN, OpenCV, Tensorflow, Docker</i>	<i>Nov. 2024 – May 2025</i>
<ul style="list-style-type: none"><li>Trained YOLOv8 and CNN models on 10,075 annotated X-ray images.</li><li>Detected spinal disc degenerations and diseases with high accuracy.</li><li>Applied OpenCV for preprocessing and augmentation for various different classes of the degenerations.</li><li>Published and presented outcomes at ICAISI-25 international conference.</li></ul>	

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

## PROJECTS

<b>Time Series Forecasting for Crop Yield</b>   ML, Data Analytics, Prophet, ARIMA, React	<i>May. 2024 – Nov. 2024</i>
<ul style="list-style-type: none"><li>Forecasting model leveraging historical time-series crop data.</li><li>Applied ML techniques to predict yield with improved accuracy.</li><li>Enabled farmers and stakeholders to plan resource allocation effectively.</li><li>Published and presented outcomes at ICAISI-25 international conference.</li><li>Nominated for SIH Hackathon – 24</li></ul>	
<b>Frame Interpolation (Edge AI)</b>   Raspberry Pi 5, Hailo 8L , ONNX	<i>Sept. 2024 – Dec. 2025</i>
<ul style="list-style-type: none"><li>A Real-time video frame interpolation using ONNX Runtime.</li><li>Deployed on Raspberry Pi 5 integrated with Hailo 8L AI accelerator.</li><li>Optimized pipeline for low-latency live video input/output.</li><li>Enhanced video smoothness for edge AI applications.</li></ul>	

<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> <p><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></p>	

<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.