

# VANSH BADJATE

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## CAREER OBJECTIVE

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Engineering student specializing in Artificial Intelligence and Machine Learning with a strong foundation in Python, Java, and applied machine learning. Hands-on experience in computer vision, data analysis, and AI-driven applications through academic projects and an AI & Cloud internship. Comfortable working across the development lifecycle, from data preprocessing to model building and evaluation.

## EDUCATION

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|---|---------------------------|--------------------|
| <b>Bachelor of Technology - CSE With AIML Specialization</b><br>Sanjivani University, Kopergaon | <b>CGPA: 8.55/10</b>      | <b>2024 - 2027</b> |
| <b>Diploma in Computer Technology</b><br>Sanjivani K.B.P Polytechnic, Kopergaon                 | <b>Percentage: 84.51%</b> | <b>2021 - 2024</b> |
| <b>SSC - Maharashtra Board</b><br>S.G.Vidyalaya, Kopergaon                                      | <b>Percentage: 83.40%</b> | <b>2020 - 2021</b> |

## TECHNICAL SKILLS

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**Programming Languages:** Python, Java, C++.

**AI & Machine Learning:** Machine Learning fundamentals, Computer Vision, Model Evaluation, Data Preprocessing

**Frameworks & Libraries:** NumPy, Pandas, Scikit-learn, OpenCV, TensorFlow/Keras, Flask, Streamlit.

**Web Tech:** HTML5, CSS3, JavaScript.

**Database:-** MySQL, MongoDB.

**Tools & Platforms:** N8N, Make.com, Git, Github, VS Code, IBM SPSS, IBM Watsonx Studio, Google Colab, Power BI.

## PROJECTS

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### Designed and Developed SafeVision – Real-Time Smart CCTV Threat Detection System

- Built an intelligent CCTV-based surveillance system to detect unauthorised entry in real time using zone-based monitoring and time-based verification to reduce false alarms.
- Implemented detection of masked individuals and common weapons (handgun/pistol, knife, axe, hammer, metal rod) along with camera tampering detection for improved security reliability.
- Developed an automated alert escalation mechanism that notifies the primary admin and escalates alerts with image and location evidence if no response is received.
- **Technologies Used:** Python, OpenCV, Flask, HTML, CSS, JavaScript.
- **GitHub:** [Project Repository](#)

### Designed and Developed an LLM Reasoning Quality Evaluation Engine

- Built a post-training evaluation system to assess the quality of multi-step reasoning in LLM-generated responses beyond final answer accuracy.
- Analyzed model explanations for logical consistency, step continuity, completeness, and adherence to given instructions using structured rubrics.
- Identified reasoning errors, incomplete explanations, and potential hallucination risks even when final answers were correct.
- Logged evaluation results and failure patterns to support human-aligned feedback and response quality improvement workflows.
- **Technologies Used:** Python, Pandas, LLM APIs, CSV-based annotation and scoring.
- **GitHub:** [Project Repository](#)

### Designed and Developed Multilingual Translator & Summariser

- Built a full-stack NLP web app translating 58 languages with tone detection, word meaning, pronunciation coach, cultural notes, phrasebook, and document translation far beyond standard translation tools.
- Engineered a 3-stage Hinglish detection pipeline combining Devanagari Unicode check, custom 50-word Hindi lexicon, and langdetect correctly identifying romanized Hindi where standard tools fail.
- Implemented TF-IDF extractive summarisation from scratch achieving 71% word reduction and document translation for PDF/DOCX with zero cloud dependency or pre-trained model.
- **Technologies Used:** Python, FastAPI, HTML, CSS, JavaScript, NLTK, deep-translator, gTTS, PyMuPDF, SQLite.
- **GitHub:** [Project Repository](#)

## Designed and Developed an Image-Based Skin Cancer Classification System

- Built this platform to assist early skin cancer identification by classifying dermoscopic images into common cancer types such as AK, BCC, and SK.
- Implemented a simple interface where users can upload a skin image and instantly see the predicted class, confidence level, and a heatmap showing the area the model focused on.
- **Technologies Used:** Python, PyTorch, Streamlit, OpenCV
- **GitHub:** [Project Repository](#)

## INTERNSHIPS

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### LLM Post-Training Intern - Ethara AI

Jan 2026 - May 2026

- Worked on Large Language Model (LLM) post-training and evaluation tasks including rubric-based assessment, reasoning evaluation, justification writing, and quality analysis.
- Contributed to RLHF/SFT-style workflows focused on improving LLM response quality, instruction following, and evaluation consistency.
- Performed image comparison, response validation, prompt evaluation, and structured reasoning analysis across client-based AI projects.
- Collaborated in fast-paced AI evaluation workflows with strict quality benchmarks and productivity targets.

### AI & Cloud Intern – IBM SkillsBuild via Edunet & AICTE

Jul 2025 – Aug 2025

- Developed AI-Based Research Assistant Agent on IBM Watsonx, capable of summarizing papers, drafting sections.
- Utilized Agentic AI, IBM IAM Auth, Python, Google & Wikipedia search for deployment.
- GitHub Repository: [Link](#)

### Web Development Intern – Techking Solution, Shirdi

Jul 2023 – Aug 2023

- Built live Currency Converter website with real-time API integration
- Led UI/UX and deployment with team collaboration
- Live Preview: [Link](#)

## CERTIFICATION

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| • <b>Cloud Fundamentals</b>                        | <b>Issued by IBM Career Education Program</b> |
| • <b>Predictive Modeling with IBM SPSS Modeler</b> | <b>Issued by IBM Career Education Program</b> |
| • <b>IBM Watson Studio</b>                         | <b>Issued by IBM Career Education Program</b> |
| • <b>Introducing Generative AI with AWS</b>        | <b>Udacity</b>                                |

## CO-CURRICULAR ACTIVITY

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- Participated National Level Hackathon, SUNHACKS 2025 Organised by Sandip University, Nashik.
- Selected for the Grand Finale (Top 25 out of 60 teams) at the Kumbha Visitor Experience Innovation Challenge 2026.
- Participated State Level Project Competition, Dipex 2025 – Selected till idea presentation round for project proposal
- Participated in the Spectra Vision Workshop on Hyperspectral Imaging held at Sanjivani University, conducted by the team from National Chung Cheng University (Taiwan), duration: 1 week.

## EXTRA CURRICULAR ACTIVITY

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- Vice President, AIML Department Student Association (ADSA), Sanjivani University (2024 – 2025).
- Sports Secretary, ACTS (Association of Computer Technology Students), Sanjivani K.B.P. Polytechnic (2023–2024).

## DECLARATION

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I hereby declare that the information provided above is true and correct to the best of my knowledge. I am confident that if given an opportunity, I will deliver my best and contribute positively to the growth of your organization.