

# Onkar Waghmode

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## EDUCATION

<b>Vishwakarma Institute of Technology, Pune</b> <i>Bachelor of Technology in Computer Engineering</i>	2022 – 2026 CGPA: 9.06
<b>D.B.F. Dayanand College of Arts &amp; Science, Solapur</b> <i>Higher Secondary Education (12th)</i>	2021 – 2022 Percentage: 87%
<b>New English School, Uplai Kh., Solapur</b> <i>Secondary School (10th)</i>	2019 – 2020 Percentage: 93.20%

## PROJECTS

- Kisan-DSS (Decision Support System)** [🔗 Demo](#) [🐙 GitHub](#)
- **Objective:** Built an **AI-powered dashboard** to assist farmers with **crop selection**, **market selection** and **market pricing** through real-time insights.also integrated suggestions for **relevant government schemes** to support farmers financially.
  - **Tech Stack:** React, Flask, Google Gemini API, Random Forest, Decision Tree, MongoDB.
  - **Contributions:** Developed an **interactive dashboard** for **real-time market trends** and recommendations. Built a **marketplace interface** for **direct farmer-to-consumer sales**.
- AI-ResearchMate: Humanizing and Assisting Research with LLMs** [🐙 GitHub](#)
- **Objective:** Built an **AI-driven co-research assistant** to simplify academic research through **smart search**, **interactive Q&A**, and **humanized text transformation** to bypass AI content detection.
  - **Tech Stack:** Python, FAISS, BART (HuggingFace), MongoDB, ArXiv Dataset, Journal Ranking Dataset.
  - **Contributions:** Developed **RAG-based research and journal retrieval system** using paper embeddings. Engineered a **BART-powered AI content humanization pipeline** to help avoid AI detection. Created an **AI content detector** to highlight AI-generated text and replace that with humanized text.
- GRE MasterGuide – Gamified Vocabulary Prep Platform** [🐙 GitHub](#)
- **Objective:** Developed a **gamified AI-powered platform** to help users master GRE vocabulary through **daily word goals**, **customized plans**, and a **chatbot mentor**.
  - **Tech Stack:** React, Node.js, MongoDB.
  - **Contributions:** Implemented **plan-wise word/test scheduling**, built a **word explorer with mnemonics**, and integrated an **AI chatbot** for instant query support.

## SKILLS

**Languages:** C, C++ (Intermediate), Java, HTML, CSS, JavaScript, SQL, Python (Intermediate)  
**Tools and Technologies:** React, Node.js, Express.js, MongoDB, MySQL, Flask, Machine Learning and NLP Algorithms, Information Retrieval, RAG Systems, Git, GitHub

## ACHIEVEMENTS

- Finalist at **Barclays Hack-O-Hire 2025** [Demo](#)
- Awarded **Best Solution in Agritech** at a national-level hackathon organized by the Innovation Foundation.
- HackerRank **5-Star Coder** in Java
- HackerRank **4-Star Coder** in Problem Solving
- Research paper published and indexed in a **Scopus journal**, *Communications on Applied Nonlinear Analysis*. [Link](#)
- Patent Published for the project **Smart Gear Recommendation System Using IoT**.  
*Application No: 202521004086*