

Vansh Chani

✉ vansh.chani.code@gmail.com ☎ +91 70870-86067 in Vansh Chani 🌐 vansh-chani

Education

Vellore Institute of Technology, Vellore

B.Tech in Computer Science with specialization in AI/ML

Aug 2023 – May 2027

- CGPA: 9.42/10.0

Police D.A.V. Public School, Ludhiana

12th Standard, CBSE

Apr 2022 – May 2023

- Percentage: 96.2%

Skills

Languages: C, C++, Java, Python, HTML, CSS, JavaScript, SQL

Frameworks: NumPy, Pandas, Matplotlib, Scikit - Learn, TensorFlow, Langchain, FastAPI

Tools: Git, VS Code, GitHub, Google Colab, IntelliJ

Projects

Automated Dataset Integration and Preprocessing System

[GitHub - Refyne.AI](#) 🔗

- Integrated Kaggle API and Gemini API to automatically search, aggregate, and preprocess similar datasets, expanding dataset size by an average of 40%.
- Implemented automated preprocessing using Simple and KNN imputers, Isolation Forest, based on skewness and correlation improving data completion by approx 20%.
- Applied Deep Feature Synthesis (DFS) using FeatureTools for automated feature engineering, generating an average of 20+ new features per dataset and improving regression task accuracy by approx 30%.
- **Tools Used:** FeatureTools, Scikit-Learn, Kaggle API, Gemini API, Regex

Automated Exam Paper Tagging System

[GitHub - Papers](#) 🔗

- Developed an end-to-end pipeline for automatically tagging and detecting question papers for *Papers - by CodeChef-VIT* ([papers.codechefvit.com](#) 🔗) using Gemini 2.0 Flash model, enabling structured extraction of examination information and answer keys.
- Implemented a secondary pipeline to tag unstructured papers and seamlessly upload them to Cloudinary and MongoDB for storage and retrieval.
- Deployed and scaled the pipeline on AWS EC2, successfully processing 1500+ papers to improve accessibility and searchability.
- **Tech Stack:** Next.js, TypeScript, Gemini API, AWS EC2

Semantic Book Recommender

[GitHub - Recommender](#) 🔗

- Built a semantic book recommendation system for 7000+ books with 500+ categories that understands natural language queries using vector embeddings from Hugging Face Transformers.
- Integrated ChromaDB for efficient vector storage and retrieval, enabling fast similarity search and ranking.
- Applied sentiment analysis and zero-shot classification to cluster books into meaningful categories and improve recommendation quality.
- Performed extensive EDA to uncover trends and tune model performance.
- **Frameworks:** Python, Hugging Face Transformers, ChromaDB, Scikit-Learn

Society and Organizational Roles

Machine Learning Lead

Codechef-VIT

*VIT, Vellore
Sept 2023 – Present*

- Developed multiple ML projects involving LLM fine-tuning, supervised and unsupervised learning, and NLP, and delivered two academic sessions to over 100 people.
- Spearheaded the end-to-end organization of CookOff 9.0, a flagship coding competition at graVITas'24, coordinating a team that facilitated the participation of over 500 students, achieving overwhelmingly positive feedback.

Achievements and Certifications

Oracle OCI 2025 Generative AI Professional (1Z0-1127-25)

2025 – 27

Oracle University ([Certificate - Oracle](#)) [🔗](#)

Achieved with **88% grade**, demonstrating expertise in Oracle Cloud Infrastructure (OCI) Generative AI, LLM deployment, and prompt engineering.

Oracle OCI 2025 Certified AI Foundations Associate (1Z0-1122-25)

2025 – 27

Oracle University ([Certificate - Oracle](#)) [🔗](#)

Earned with **93% grade**, validating knowledge in AI fundamentals, machine learning workflows, data science practices, and Oracle AI services.

Supervised Machine Learning: Regression and Classification

2024

DeepLearning.AI, Stanford Online ([Certificate - Coursera](#)) [🔗](#)

Completed with **100% grade**, covering regression, classification, model evaluation, and feature engineering.

Academic Achievement: Ranked 2nd in branch out of 300 students

2023 – 24

VIT University, Vellore