



PARTH KALE

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EDUCATION

Vishwakarma Institute of Technology

Bachelor of Engineering

Major in Artificial Intelligence and Data Science

CGPA: 8.11/10.0

Relevant Coursework : Data Science, Machine Learning, Deep Learning, Operating Systems, Data Structures and Algorithms, Artificial Intelligence, OOPs

Pune, MH
Expected June 2026

UNIVERSITY PROJECTS

CareerWise– AI-Enhanced Career Guidance System | Python, Gradio, Langchain, Llama3.2, NLP May 2025

- Built a 3-in-1 AI-driven career guidance platform using **Gradio** with modules for (1) student career prediction using academic and behavioral data, (2) professional skill analysis via resume parsing and course recommendations, and (3) a LangChain-powered chatbot offering contextual career advice.
- Developed a resume parsing and skill gap analysis using **NLP and hybrid recommendation engine based on CF and CBF** that extracts skills, compares them with job requirements, and recommends top 5 online courses with ratings to bridge gaps—enhancing user readiness for desired roles.
- Implemented a **RAG** chatbot using **LangChain and Llama 3.2**, capable of answering career-related queries by retrieving relevant documents and generating friendly, motivating responses.

Industrial Project – Herbal Cosmetics personalized recommendation system using Gen AI

Dec 2024

In collaboration with [The Herbs Magic](#) | Gen AI, GPT 2

- Developed a generative AI recommendation model for market trend analysis in the herbal cosmetics industry.
- Integrated user attributes such as skin type, age group, and beauty goals to deliver personalized, ingredient-specific recommendations.
- Designed an AI-driven personalization system suggesting the top 5 products based on user inputs.

Alzheimer's Disease Prediction and Multistage Classifier | Tensorflow, Keras, NumPy, Gradio May 2024

- Developed a prediction model for Alzheimer's disease and a multistage classifier system based on MRI images of the brain to enhance diagnostic accuracy and early detection with an accuracy of 86%.
- Engineered an advanced SVM with RBF kernel that improved classification accuracy of Alzheimer's stages by 10%, facilitating earlier intervention and improving patient outcomes significantly.
- Executed various comprehensive visualization techniques like ROC curve, Precision-Recall curve, and Confusion Matrix heatmap to evaluate model performance and enhance interpretability.

ProActiveDrive: Sensor-Based Accident Detection | Arduino, Sensors, IOT

Dec 2023

- Designed a vehicle safety system integrating ultrasonic sensors, accelerometers, GPS and GSM modules to detect accidents and notify emergency services in real-time.
- Reduced emergency response times by 40%, enhancing road safety and accident prevention.
- Proactively addressed driver behavior analysis for potential accident prevention.

POSITION OF RESPONSIBILITY

Code In Heaven & CO. (8 employee startup)

Operations Lead

Pune, MH

Jan 2024 – May 2024

- Assisted in scaling business operations and client acquisition strategies.
- Collaborated with the marketing team to align social media efforts with business goals.
- Developed content strategies to enhance brand visibility and audience engagement.

ADDITIONAL

Technical Skills: Advanced in SQL, Javascript, HTML/CSS, IOT, Python, Machine Learning, Deep Learning, LLM, NLP, PowerBI, LangChain

Training / Courses: Fundamentals of Deep Learning, Nvidia / IBM Data Engineering(16 Courses), Coursera / Complete A.I. & Machine Learning, Data Science Bootcamp, Udemy

Key Achievements: Published Research Paper in Advances in Nonlinear Variational Inequalities, a Scopus-Indexed journal [Link](#) / Mr.Fit Winner at VIT Pune / Scored 97.5 percentile in MHT-Cet Examination