

# DWEEPAYAN KAR

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## TECHNICAL SKILLS

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Python, C/C++, SQL, Scikit-learn, Pandas, NumPy, TensorFlow, Keras, Hugging Face, LLMs

## PROJECTS

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- Credit Card Fraud Detection using ANN** | Python, Pandas, TensorFlow, Jupyter Notebook Mar-May 2025
- Developed and optimized an Artificial Neural Network (ANN) for detecting fraudulent credit card transactions with high accuracy and low false positive rate.
  - Executed comprehensive data pre-processing including feature selection, missing value handling, and encoding categorical variables using one-hot and label encoding.
  - Applied train-test split, data balancing, and model validation techniques to improve model robustness and generalisability.
  - Evaluated model performance with confusion matrix, precision, recall, and F1-score metrics; implemented the full pipeline in an interactive Jupyter notebook.
- Pic Geny** | Python, PyTorch, Diffusers, Transformers, Stable Diffusion, Computer Vision Jul-Sep 2024
- Developed a robust text-to-image generation system using Stable Diffusion and transformers, enabling high-quality image synthesis from natural language prompts.
  - Implemented custom configuration for model inference including seed control, guidance scale, and image output dimensions to optimize generation quality and consistency.
  - Leveraged GPU acceleration and mixed precision (fp16) techniques for efficient large-scale model deployment on CUDA devices.
  - Created modular Python pipeline integrating Hugging Face Diffusers and Transformers libraries, enabling scalable and reproducible text-to-image generation workflows.
- Face Recognition Attendance System** | Python, OpenCV, face recognition, dlib, Machine Learning Feb-Apr 2023
- Developed an automated attendance system leveraging deep face recognition techniques using the dlib-powered face recognition library for high-accuracy identification.
  - Implemented real-time face detection and recognition from webcam video streams, integrating OpenCV for image preprocessing and visualization.
  - Engineered a robust pipeline to extract face encodings, match identities against a known database, and log attendance data with accurate timestamps.
  - Utilized efficient Python scripting and environment management to ensure seamless deployment, achieving around 99% recognition accuracy in diverse conditions.

## CERTIFICATIONS

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Generative AI with Large Language Models – DeepLearning.AI Aug 2025

## EXTRA-CURRICULAR ACTIVITIES

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### Tech Lead, North-East Club

Managed the technical aspects of various events, leading a 15-member team, successfully attracting over 500 participants and establishing the club's technical reputation.

### Runner-up in IDEATHON '22

Recognized among top AI/ML innovations at VIT Bhopal for developing a novel solution to help students effectively navigate their academic workload.

## EDUCATION

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### VIT Bhopal University

*Bachelor of Technology in Computer Science and Engineering*

*Specialization in Artificial Intelligence and Machine Learning*

CGPA: 8.32

Nov 2022 – Present  
Bhopal, Madhya Pradesh