

Deepika

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EDUCATION

KIET Group of Institutions

Bachelor of Technology in Computer Science and Engineering

Muradnagar, Ghaziabad

October 2022 – June 2026

CJ DAV Centenary Public School

10th (96.6%) and 12th (95.8%)

Shastri Nagar, Meerut

March 2010 – July 2022

EXPERIENCE

Machine Learning (OCR) Intern

Business Quant

June 2024 - September 2024

-Remote

- Worked on Optical Character Recognition (OCR) projects for business analytics.
- Developed custom algorithms and fine-tuned OCR models to extract critical information from documents.

AI/ML Developer

Drifko

April 2024 - July 2024

Ghaziabad

- Designed and implemented chatbots using Rasa and Chainlit frameworks, leveraging large language models (LLMs) to facilitate natural and intuitive user interactions.
- Created sophisticated natural language processing (NLP) models to enhance the company's digital solutions, focusing on understanding and generating human-like text.

Data Science Intern

NULLCLASS

March 2024 - April 2024

Muradnagar, Ghaziabad

- Built a real-time translation app from scratch, integrating state-of-the-art machine translation models to facilitate seamless communication across languages..

PROJECTS

Smart Glasses for the Visually Impaired |

September 2024- Present

- Designing innovative smart glasses that use AI and computer vision for enhanced mobility and obstacle detection.
- Developed features such as auditory feedback and proximity sensors to assist visually impaired individuals in real-time.

BIPV (Building-Integrated Photovoltaics) Simulation |

October 2024- Present

- Developed a Python-based application for simulating building shadows and calculating solar potential using PVLib, GeoPandas, and Shapely.
- Utilized ray casting for sun position calculation and optimized energy generation predictions for rooftops.

CyberRakshak | ML & DL , TensorflowFlutter and Flask

November 2023- January 2024

- Developed a cybercrime prediction app using machine learning and Flutter: Leveraged ML algorithms to predict criminal next steps, building the user interface with Flutter and backend with Flask
- Selected in the November 2023 Innovation Challenge and won the Innotech 2023 award, demonstrating the project's impact and potential

SKILLS AND COMPETENCIES

Programming & Problem Solving

Leetcode , *CodeForces*

- Solved 200+ coding problems
- Strong algorithmic thinking and competitive programming skills

Languages : C , C++ , Python , MySQL , Cypher

Framework : TensorFlow, PyTorch, scikit-learn, NLTK

Developer Tools : Git and GitHub, Jupyter Notebooks, VS Code, Google Colab ,Linux

Data Analytics & Visualization : Pandas, NumPy, Matplotlib, Seaborn

Machine Learning & AI: Machine Learning Algorithms, Deep Learning, NLP, Transformers, Large Language Models (LLMs)

Soft Skills: Creativity and Innovation, Communication and Presentation Skills, Collaboration and Teamwork, Adaptability and Flexibility

LEADERSHIPS & ACHIEVEMENTS

Achievements : Gold Medalist in 2 mathematics olympiad POF and SOF.

ScholarshipsAICTE Pragati Scholarship of 50,000

Entrepreneurship : Currently launching a startup focused on smart glasses for the visually impaired, aiming to positively impact society using AI.

Team Lead, CyberRakshak Project: Managed a team of 5 in the development of a cybercrime prediction system, coordinating efforts between machine learning, app development, and backend integration teams.

Won Innotech 2023 Award for the project's impact.