

Kalash Dwivedi

CSE – Artificial Intelligence and Machine Learning
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Summary

Final-year AI/ML engineering student with hands-on experience in AI-powered systems, full-stack development, and machine learning. Passionate about solving real-world problems using scalable and efficient technology.

Technical Skills

Languages: Python, Java, SQL, JavaScript

AI/ML: Scikit-learn, NLTK, OpenAI API, Sentiment Analysis, SMOTE, XGBoost, Pandas, NumPy

Backend: Flask, Express.js, JWT Authentication, REST APIs, SQLite

Frontend: React, TailwindCSS, Speech-to-Text (Web Speech API), Text-to-Speech

Tools & DevOps: Git, VS Code, Google Colab, Jupyter Notebook

Core CS Concepts: Data Structures and Algorithms, DBMS, API Integration

Education

| Degree | Institute/Board | Year | Score |
|----------------------|---------------------|-----------|--------------------------|
| B.Tech (CSE – AI/ML) | NIET, Greater Noida | 2022–2026 | CGPA: 7.01(till 5th sem) |
| 12th Grade | CBSE Board | 2020–2021 | 78% |
| 10th Grade | CBSE Board | 2018–2019 | 70% |

Projects

AI Mental Health Chatbot – React + Flask

2024

OpenAI API, NLTK, TailwindCSS, Sentiment Analysis

- Designed and deployed a chatbot offering emotional support via AI-generated replies and mood detection.
- Used NLTK for real-time sentiment analysis and OpenAI API for dynamic user conversations.
- Suggested music, movies, breathing exercises based on user's emotional state.
- Integrated speech-to-text and TTS to improve accessibility and user experience.

Credit Card Fraud Detection System – 98% Accuracy

2023

Python, Scikit-learn, SMOTE, Pandas, XGBoost

- Built a ML pipeline to detect fraudulent transactions with high recall and precision.
- Handled severe data imbalance using SMOTE; trained on real-world credit card dataset.
- Achieved over 98% accuracy using Random Forest and XGBoost classifiers.

Web Development Projects

2023

HTML, CSS, JavaScript

- Built and hosted a personal portfolio website to showcase work and skills.
- Designed a landing page UI and a fully functional calculator with clean UI.

Courses & Certifications

- Python Basics – Coursera:** Learned Python basic problem-solving using real-world examples.
- Data Structures and Algorithms in Python – Infosys:** Gained hands-on experience with lists, stacks, queues, trees, sorting, searching, and recursion.
- Python for Data Science and AI – Coursera:** Worked on real datasets using NumPy, Pandas, and Matplotlib. Implemented machine learning basics and data analysis pipelines.