NIKUNJ

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Technical Skills

Programming & Backend	: Python, JavaScript, Flask, SQL, REST API
Dev. Tools	: VS Code, Android Studio, Pycharm/Jupyter notebook, GitHub
Frameworks & Libraries	: Linux, TensorFlow, PyTorch, Scikit-learn, Keras, REST API, Flask/Django, MERN(MongoDB, Express.js, React.js, Node.js)
Coursework	: Data Structures, Artificial Intelligence, OOPs, OS, Project Management, RDBMS, TOC, Algorithms
AI & Data Science	: NumPy, Pandas, LLM Prompt Engineering, Machine Learning, Generative AI
Big Data & Cloud Computing	: Google Cloud, Cloud Computing, Data Analytics, Kinesis, Kafka, AWS(EC2, ECS, API Gateway)
Cybersecurity & Data Protection	: Encryption, Password Hashing, Secure API Development
Software Development	: Unit Testing, Debugging, Version Control, Agile Development, Software Engineering, Software Solutions, Code Reviews

Education

Manipal University Jaipur   **| CGPA:** *8.13*

Bachelor of Technology in Computer Science and Engineering specializing in Artificial Intelligence and Machine Learning | 6th Semester | Graduation: 2026

Work Experience

Full Stack Developer | Ceeras IT Services | 02-2025 - 06-2025
Contributed to the development of a two-sided marketplace application that connects local shopkeepers with consumers in real-time.
- Collaborated on building features that allow users to search for products and receive a list of nearby shops stocking them, along with location and directions.
- Assisted in implementing the shopkeeper dashboard, where shopkeepers can register, list products, and receive notifications when users search for relevant items.

Projects

Code Snippet Sharing Platform – React & FastAPI (Near Completion)
- Developing a full-stack application where users can upload code snippets with videos; backend built using FastAPI, Cloudinary database(for videos) and Firebase Firestore(for metadata) are used, frontend in React.
- Handled video uploads using Cloudinary and implemented REST APIs to manage user snippets, code, and metadata securely.
- Designed a clean interface in React to display uploaded snippets, embed video previews, show comments, and leveraged LLMs API to generate theory/code-based quizzes and video explanations in simplest terms.

Advanced Rainfall Prediction and Landslide Fatality Prediction
- Processed and analyzed 33 years of high-resolution IMD gridded rainfall data (1992–2024), covering 12054 days and a spatial grid of 129×135 points (over 1.7 million data points per year).
- Developed and automated a robust data pipeline to convert raw binary rainfall files into xarray DataArrays, handling missing values and enabling efficient multi-year analysis and visualization.
- Engineered and trained a high-performance deep learning model (over 200 epochs) for daily rainfall prediction, achieving a mean absolute error (MAE) below 0.005 (normalized scale) and supporting predictions up to 77.1 mm/day.
- Implemented a forecasting tool capable of generating spatial rainfall predictions for any date and location in India with visual outputs and post-processing for practical climate analysis.

Smart Fashion Recommendation System
- Built a Machine-Learning-powered fashion recommendation system that detects facial features and suggests color-coordinated outfits using skin tone analysis with over 90% face detection accuracy using InsightFace.
- Integrated color harmony rules (complementary, analogous, neutral) to generate over 500+ logical outfit combinations, improving visual style coherence and user satisfaction.
- Engineered backend in Python using OpenCV, NumPy, and Matplotlib, and optimized it to generate 5 best-matched outfits from 30+ filtered clothing items based on user's gender, usage, and skin tone.
- Leveraged version control (Git) and unit testing, **reducing errors by 30%**, enhancing scalability.

Disaster Guard(Crowd-Sourced Disaster Reporting tool)   *Deployed Link*
- Constructed a Flask-based AI-driven disaster analytics platform utilizing ML models and SQL for real-time disaster report analysis, utilizing Pandas, and NumPy for data analysis. Integrated REST APIs and heatmaps for visualization, improving disaster report **accuracy by 40%**.
- Leveraged LLM prompts to improve disaster response insights.
- Enhanced dashboard usability, making disaster **reporting 70% easier** and **50% faster** compared to traditional methods.
- Applied attention to detail in ensuring the system was user-centric and intuitive for diverse audiences.

Relevant Certifications

LNMHacks 6.0 Hackathon	***Database Programming With SQL***
Data Structures University Of California(C++)	***Cryptography and Information Theory***
Cloud Computing	***IIT Madras-NPTEL DAA***

Soft Skills

Teamwork, Collaboration, Communication, Assist team members, Problem Solving, Attention to detail, Maintaining accurate records, Design, Ability to multitask, work under deadlines.