NAVEEN KUMAR G

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PROFESSIONAL SUMMARY

AI and Full-Stack Developer proficient in Python, Django, React, and PostgreSQL, with expertise in machine learning, computer vision, and IoT. Experienced in delivering scalable, real-time, and data-driven applications.

EDUCATION

Bachelor of Technology in Artificial Intelligence And Data Science   **May 2028**
KGISL Institute of Technology**,** Coimbatore

Higher Secondary Certificate (HSC)   **April 2024**
Sree Dharmasastha Matric Hr Sec School

Secondary School Certificate (SSLC)   **May 2022**
Sree Dharmasastha Matric Hr Sec School

SKILLS

- **Programming Languages:** Python, SQL, Java, C , Typescript , Javascript
- **AI & Machine Learning:** Scikit-learn, Algorithms, PyTorch, Tensorflow ,L L M , RAG .
- **Backend Frameworks:** Django, Django REST Framework , Flask , FastAPI
- **Frontend Frameworks:** React.JS, Tailwind CSS
- **Mobile Development Frameworks:** React Native
- **Other Tools:** Git, GitHub, VS Code, Figma
- **Soft Skills:** Problem-Solving, Creative Thinking, Leadership & Team Coordination

PROJECTS

Wildlife Monitoring System (AI + IoT | Full Stack)
- **Tech Stack**: ESP32-CAM, YOLO, Django REST Framework, React.js, Tailwind CSS, MySQL, Twilio
- Developed an **AI-powered wildlife monitoring system** using ESP32-CAM and YOLO to detect and classify animals in real time with motion-triggered image capture.
- Built a **full-stack dashboard with JWT authentication and SMS/WhatsApp alerts**, enabling live monitoring, analytics, and proximity-based wildlife threat notifications.

AI-Based Face Recognition Attendance System
- **Tech Stack**: Python, OpenCV, Face Recognition (CNN), Django, React, MySQL .
- Build an AI-based face recognition system to automate attendance using a webcam or smartphone.
- Developed a **real-time face recognition system** that captures live video, identifies registered students, and automatically marks attendance with secure database storage and dashboard visualization.

Aero Guardian (AI | Full Stack | Geospatial)
- **Tech Stack**:React (Vite), Django REST API, GeoDjango, PostgreSQL (PostGIS), TensorFlow/Keras, Chart.js
- Developed a **real-time air quality monitoring and prediction system** with ML-based AQI forecasting and location-aware geospatial analysis.

CERTIFICATIONS & ACHIEVEMENTS

- Participated in NASA International Space Apps Challenge at SNS College of Technology, Coimbatore, and received recognition for Outstanding Participation (Galactic Problem Solver).
- Selected for the **final round of the IEEE Hackathon** and participated at **Kothamangalam, Kerala**.
- Google Gemini Certification for Students (K12)– Google (2025).

LANGUAGES

Tamil – Native / Bilingual Proficiency   English – Professional Proficiency