NEHA S

ML ENGINEER

✉ nehasasikumar06@gmail.com 📞 +91 9345741933 📍 Coimbatore, Tamil Nadu in Nehasasikumar
○ Nehasasikumar 🔗 Neha's Portfolio

PROFILE

Innovative AIML enthusiast with hands-on experience building AI-powered platforms, scalable backend systems, and intelligent automation tools. Skilled in FastAPI, Flask, PostgreSQL, MongoDB, and modern AI models like Google Gemini. Developed end-to-end solutions including mental wellness platforms, chatbot-based approval systems, and AI summarizers with strong accuracy and real-time processing. Passionate about creating user-centric, secure, and high-performance AI applications.

EDUCATION

SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY   2023 – 2027 | Coimbatore, Tamil Nadu
B.Tech Artificial Intelligence and Machine Learning
CGPA | 8.6

BHARANI PARK MATRIC HIGHER SECONDARY SCHOOL   2023 | Karur, Tamil Nadu
HSC | 83.1%

SKILLS

Languages and Front-End:Python,C, HTML, CSS, JavaScript, TypeScript
Back-End & APIs: Flask, FastAPIs,Django
Databases: MongoDB, SQL
Machine Learning & AI: Scikit-learn, TensorFlow, OpenCV, YOLO, SpaCy, NLTK, Pandas, NumPy
Tools & Platforms: GitHub, VS Code, Google Colab, Vertex AI
Core Competencies: Machine Learning, Deep Learning, NLP, Computer Vision, FastAPIs, Team Collaboration, Problem Solving

PROJECTS

AI-Powered Mental Wellness Platform   Sep 2025
Django, FastAPI, PostgreSQL,Google Gemini AI
- Built a video-based therapy system with 3D avatar psychologists, multilingual support, and real-time emotion detection.
- Delivered scalable microservices with WebSockets, AI-driven adaptive therapy, and secure crisis intervention protocols.

ExitEase - A Chatbot based Outpass Generator   Jun 2025
Flask, MongoDB, YOLO
- Developed a responsive web platform with secure APIs for authentication, role-based approvals, and real-time tracking, reducing approval time by 60%.
- Integrated YOLO-based ID card recognition (95% accuracy) to automate verification and enhance security.

AI-Powered Article Summarizer   Oct 2024
TypeScript,TailwindCSS,FastAPI, SQLAlchemy, BeautifulSoup, Google Gemini
- Built an advanced two-phase AI summarization tool featuring secure token-based authentication and PostgreSQL database integration, which reduced article reading time by 70% while achieving 95% user satisfaction.
- Developed an interactive React interface enabling rapid summary access and visualization of key metrics, processing over 50 to 100 articles daily with 90% accuracy

ACHIEVEMENT

Selected among the **Top 25 teams** in *BrainDead – Revelation 25*, a national-level ML/AI hackathon organized by IIEST Shibpur, competing against teams from leading institutes.