

NEHA S

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PROFILE

AI/ML and Data Analytics enthusiast skilled in building intelligent solutions with Flask, MongoDB, React/TypeScript, and models like YOLO and BART. Experienced in secure, role-based systems, real-time features, EDA, ensemble modeling, and predictive analytics, with projects spanning smart automation, sports analytics, and NLP summarization. Also proficient as a Full Stack Developer.

EDUCATION

B.Tech Artificial Intelligence and Machine Learning SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY CGPA 8.6	SRI Coimbatore, Tamil Nadu	2023 – 2027
BHARANI PARK MATRIC HIGHER SECONDARY SCHOOL HSC 83.1%		2023 Karur, Tamil Nadu

SKILLS

Languages and Front-End: Python, C, C++, HTML, CSS, JavaScript, TypeScript, React.js
Back-End & APIs: Flask, REST APIs, Django
Databases: MongoDB, SQL
Machine Learning & AI: Scikit-learn, TensorFlow, OpenCV, YOLO, SpaCy, NLTK, XGBoost, Pandas, NumPy
Tools & Platforms: Git, GitHub, VS Code, Google Colab
Core Competencies: Full Stack Development, Backend Development, Machine Learning, Deep Learning, NLP, Computer Vision, REST APIs, Data Pipelines, Team Collaboration, Problem Solving

PROJECTS

AI-Powered Mental Wellness Platform , <i>Django, FastAPI, PostgreSQL, Google Gemini AI</i> • 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.	Sep 2025
ExitEase - A Chatbot based Outpass Generator , <i>Flask, MongoDB, YOLO</i> • 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.	Jun 2025
AI-Powered Article Summarizer , <i>Flask, MongoDB, SpaCy, BART, TypeScript</i> • Built a two-phase summarization tool with secure token-based authentication and MongoDB integration, reducing reading time by 70%. • Delivered an interactive React interface to access summaries and visualize key metrics efficiently.	Oct 2024

ACHIEVEMENT

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