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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   SRI   2023 – 2027
SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY   Coimbatore, Tamil Nadu
CGPA | 8.6

BHARANI PARK MATRIC HIGHER SECONDARY SCHOOL   2023
HSC | 83.1%   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

ExitEase - A Chatbot based Outpass Generator, *Flask, MongoDB, YOLO*   Jun 2025
- 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.

2025 IPL Prediction, *Python, Pandas, Random Forest, XGBoost, Plotly*   Mar 2025
- Analyzed 17 years of IPL data (2008–2024) with EDA and visualizations of key team, player, and seasonal performance metrics.
- Developed a stacked ensemble model (Random Forest + XGBoost) to predict the 2025 IPL winner with high cross-validation accuracy.

AI-Powered Article Summarizer, *Flask, MongoDB, SpaCy, BART, TypeScript*   Oct 2024
- 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.

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.