SARANYA DEVI S

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PROFILE

Highly adaptable and quick learner with a strong passion for Data Science and Software Development. Skilled in building scalable applications and applying machine learning to derive meaningful insights and solutions. Committed to continuous learning, innovation, and contributing to data-driven and technology-focused teams.

EDUCATION

M.Sc.DECISION AND COMPUTING SCIENCES   **2022 - Present**
Coimbatore Institute of Technology (CIT)
CGPA: 8.88 (Till 5th sem)

12th GRADE   **2021 - 2022**
St. Joseph Matric Higher Secondary School
Percentage: 87%

AREA OF INTEREST

Statistical Analysis| Machine learning | Predictive Analysis | NLP | MySQL | PowerBI | Full Stack Web Development

SKILLS

Languages: Python, C , R, Java , HTML , CSS , JavaScript
Frameworks & Tools: React, Angular, Django, Flask, Node.js, Express.js, MySQL, Oracle, MongoDB
Libraries: Pandas, NumPy, Scikit-learn, Plotly, NLTK, TextBlob
Software & Tools: VS Code, R Studio, MS Excel, Power BI
Soft skills: Adaptability,Teamwork, Creativity, Problem Solving

PROJECTS

CyberSentinel : Detecting Anomalies for Safer Networks 🔗
Developed a real-time anomaly detection system for network security, achieving **93.27%** accuracy using Random Forest, XGBoost, and ensemble techniques with hyperparameter tuning to enhance rare attack detection and reduce false positives. Integrated an alert buzzer system for immediate notifications upon anomaly detection

StrokeShield: Stroke Prediction Using Machine Learning 🔗
Developed a predictive model for stroke risk assessment using healthcare data. Applied regression techniques, K-Means clustering, factor analysis, and hyperparameter tuning to assess stroke risk. Logistic Regression achieved the highest accuracy of **93.93%**, enhancing clinical decision-making.

StayHub: Airbnb Clone | React, Mongodb, Express, Node.js 🔗
Developed a dynamic rental marketplace enabling homeowners to list properties with images while allowing users to explore, book, and manage stays seamlessly. Designed an intuitive UI with real-time availability updates, secure authentication, and high-performance API integrations to enhance the booking experience.

EXTRACURRICULARS

HACKATHONS:
- First Place in Smart India Hackathon 2024, CIT
- Execute 4.0 -DTU 2025 Finalist.
- 0 to 1 Hackathon- IIITD Finalist.

PAPER PRESENTATION :
- Presented a research paper titled "Real-time Anomaly Detection in Network Security using Machine Learning" at the International Conference on Computational Intelligence and Communication Technologies.

CERTIFICATIONS:
- Lean Six Sigma Yellow Belt: Skilled in process improvement and waste reduction.
- Maiyyam – Data Analysis: Power BI and Tableau.
- Maiyyam – UI/UX: Experienced in creating user-friendly designs.