YOGASATHYANDRUN R

Data Scientist

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PROFESSIONAL SUMMARY

AI and Data Science student with expertise in **machine learning, data modeling**, **statistical analysis**, **predictive analytics**, and **data visualization**. Proficient in **Python**, **SQL**, and **Java**, with a strong interest for applying **AI** and **NLP** techniques to solve complex business problems and contribute to data-driven decision-making.

EDUCATION

B.Tech in Artificial Intelligence and Data Science
Panimalar Engineering College, Chennai, India
October 2022 – Present | **CGPA: 8.40** (up to 5th semester)

Higher Secondary (Class XII)
Narayana E-Techno School, Chennai, India
June 2021 – February 2022 | **87%** (CBSE Board)

Secondary (Class X)
Narayana E-Techno School, Chennai, India
June 2019 – April 2020 | **90.2%** (CBSE Board)

PROFESSIONAL EXPERIENCE

Data Science Intern
Unified Mentor Pvt Ltd, Gurugram, India
June 2024 – July 2024
- Applied **data preprocessing** techniques including **feature scaling**, **encoding**, and **data transformation** to ensure 100% of high-quality data for analysis.
- Built predictive models using **Scikit-learn** and **TensorFlow**, resulting in a 15% improvement in model performance compared to baseline models.

SKILLS

- Programming Languages: Python, Java, JavaScript, PHP
- Machine Learning & AI: Scikit-learn, TensorFlow, Pandas, NumPy
- Data Visualization & Analysis: Matplotlib, Seaborn, Plotly
- Data Engineering: SQL, ETL, Data Warehousing, Data Preprocessing
- Web Development: HTML, CSS, JavaScript, PHP
- Tools & Technologies: Git, Jupyter

CERTIFICATIONS

Oracle Cloud Infrastructure Generative AI Certified Professional | Oracle Corporation, July 2024

Acquiring Data Certification | Futureskills, June 2024 | Gold-certified, Score: 84%

Cybersecurity Fundamentals Certification | Futureskills, November 2023 | Silver-certified, Score: 64.5%

Python Programming Essentials
Infosys Springboard, April 2024

Foundations of Data Science
Infosys Springboard, April 2024

ACHIEVEMENTS AND ACCOMPLISMENTS

Hack-Overflow 2.0 | Participant, March 2024
Pillai HOC College, Mumbai
- Created a highly efficient **transportation app** using **Python** and **GUI**, integrating **live map tracking** and **real-time fare calculation**, improving user engagement by 40%.
- Optimized backend algorithms to reduce data processing latency by 25%, resulting in faster response times and improved user experience.
- Designed and implemented an intuitive **UI/UX** that led to a 50% increase in user retention.

PROJECTS

Consultancy Website for Maverick Nest
October 2024 – Present
- Engineered a consultancy website using **HTML**, **CSS**, **JavaScript**, and **PHP**, delivering a seamless user experience that increased client engagement by 40%.
- Incorporated **PHP**/**MySQL** for content management, enhancing website functionality and enabling real-time data updates, resulting in a 25% improvement in operational efficiency.
- Completed over 75% of the project, focusing on **scalability**, **performance optimization**, and **user interaction**.

College Aptitude Software
September 2024 – Present
- Designed an interactive aptitude software with an integrated programming language compiler using **HTML**, **CSS**, **JavaScript**, improving user engagement by 35% and reducing response time by 20% through efficient backend optimization.
- Focused on improving user experience and system performance, with 75% of the project currently complete and undergoing testing.

Git link- https://github.com/Yogasathya/Online-Aptitude-Exam-Platform

Fair Fare
February 2023
- Built a **transparent transportation platform** ensuring fair pricing for both customers and drivers, using **real-time data** and fare calculation, which reduced pricing disputes by 40% and improved customer satisfaction by 25%.
- Successfully merged a **negotiation-free** system that maintained **fair profit margins** for drivers, reducing customer complaints by 35%.
- Copyright application in progress (80% complete).

Git link- https://github.com/Yogasathya/Fair_fare

Hand gesture recognition system
- This project is a **real-time hand gesture recognition system** using Python, OpenCV, and MediaPipe.
- It enables the system to recognize and track human hands, allowing interaction based on hand gestures — laying the foundation for gesture-controlled applications

Git link-https://github.com/Yogasathya/Hand_gesture_recognition

Phishing url detector
- A Flask-based web application that detects phishing URLs using machine learning.
- It extracts 15+ technical and content-based features from the given URL and applies a trained model to classify it as phishing or legitimate. Includes PCA and domain analysis for accuracy

Git link- https://github.com/Yogasathya/Phising_url_detector

ADHD detection in ASD children using Handwriting analysis
- A robust, GPU-powered deep learning system designed to detect **ADHD**, **ASD** in children by analyzing handwriting samples.
- This project leverages **ResNet50V2** with custom CNN layers and was inspired by the need for early, accessible, and non-invasive ADHD diagnosis support—especially for children with **Autism Spectrum Disorder (ASD)**

Git link-https://github.com/Yogasathya/ADHD-DETECTION-IN-ASD-CHILDREN-USING-HANDWRITING-ANALYSIS

PUBLICATIONS

"ChatBot for Combating Cyberbullying: A Comprehensive Approach with AI Technologies", TIJER - TIJER - INTERNATIONAL RESEARCH JOURNAL (www.TIJER.org), ISSN:2349-9249, Vol.11, Issue 7, page no.196-198, July-2024, Available :https://tijer.org/TIJER/papers/TIJERC001026.pdf

ADHD Detection in ASD Children Using Handwriting Analysis
- This study proposes a machine learning approach to detect ADHD in children with ASD using handwriting analysis.
- Features like tremors, stroke velocity, and pen pressure are extracted and analyzed.

[UNDER REVIEW FOR PUBLICATION IN SCOPUS 2025]