Raj Poddar

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Portfolio: https://rajakrp18.github.io/PortfolioMine/

Summary

A self-driven and meticulous MCA post-graduate with a passion for software development, problem-solving, and full-stack web development. Skilled in multiple programming languages, including Python, Java, C, JavaScript, and PHP. Experienced in building software solutions such as a Dairy Management System and a Food Delivery System. Seeking an opportunity in the IT industry to apply my technical expertise and problem-solving abilities.

Education

- 🎓 Master of Computer Applications (MCA) – JIS College of Engineering, Kalyani, WB (2021 – 2024)-70%
- 🎓 Bachelor of Science (B.Sc.) – Kanchrapara College, WB (2019 – 2022)-83%
- 🎓 Senior Secondary – Oriental Public School, Kalyani, WB (2017 – 2019)-72%
- 🎓 Secondary – ST. Stephen's School, Kalyani, WB (2015 – 2017)-72%

Skills & Technologies

- ✅ Programming Languages: Python, Java, C, JavaScript, PHP, SQL
- ✅ Web Technologies: HTML, CSS, React.js, Node.js
- ✅ Database Management: MySQL
- ✅ Cloud & DevOps: AWS (Basic), Git, GitHub
- ✅ Software Development: Full-Stack Development, APIs, Agile Methodology
- ✅ Cybersecurity Awareness: Basics of Web Security and Ethical Hacking

Project Experience

System Optimization of Dataset Results Using Supervised and Unsupervised Learning Methods (April 2023 - April 2024)

📍 Technologies Used: Python, Scikit-Learn, NumPy & Pandas, Matplotlib & Seaborn, Optimization Algorithms, Datasets, Jupyter Notebook and VS Code.

- Developed an optimized machine learning pipeline integrating Particle Swarm Optimization (PSO), Genetic Algorithm (GA), Ant Colony Optimization (ACO) with Random Forest, Decision Tree, and Linear Regression for feature selection and model enhancement.

- Designed a scalable system to improve dataset performance, reducing computation time and enhancing model accuracy.
- Applied supervised and unsupervised learning techniques for real-world datasets like Breast Cancer, Wine Quality, and Diabetes to derive meaningful insights.
- Optimized feature selection, reducing redundancy and improving model interpretability, achieving enhanced accuracy with efficient computation.
- This project bridges optimization techniques with machine learning, ensuring data-driven models are both efficient and highly accurate for real-world applications.

Dairy Management System (January 2022- April 2022)

📍 Technologies Used: HTML, CSS, JavaScript, PHP, Bootstrap

• Developed an end-to-end Dairy Management System with modules for Admin, Consumers, and Delivery Personnel.

• Implemented automated order processing, inventory tracking, and user authentication features.

• Enhanced user experience with a responsive web interface and optimized database queries for efficient data handling.

Food Delivery System (January 2022 - April 2022)

📍 Technologies Used: PHP, MySQL, JavaScript, Bootstrap

• Designed and developed a Food Delivery System with role-based access for Admins, Consumers, and Delivery Agents.

• Integrated a real-time order tracking system and secure payment gateway.

• Optimized backend algorithms for faster order processing and delivery time estimation.

Certifications & Workshops

📌 **AWS Basics** – Introduction to Cloud Computing & AWS Services

📌 **Web Development** – Frontend & Backend Technologies

📌 **Cybersecurity Basics** – Understanding Web Security & Threat Prevention

📌 **Career Essentials in Software Development** - Microsoft & LinkedIn

📌 **AI for Organizational Leaders** - Microsoft & LinkedIn

📌 **HR Foundations: Core Human Resources** - LinkedIn