Ravi kumar Yadav

E-mail : kumaryadavravi016@gmail.com   Linkedin : https://www.linkedin.com/in/ravi-kumar-yadav-5739v

Portfolio link : https://portfolio-project-rose-eight.vercel.app/   Mobile : +91 7696184900

EDUCATION

Baba Farid College of Engineering & Technology, Bathinda   Bathinda , India

Bachelor of Technology ; GPA : 7.00   June 2023 – June 2027

SKILLS SUMMARY

- **Languages :**   Python, C, C++, Java
- **Version Control :**   Git, Github
- **Frameworks :**   Pandas, Numpy, Scikit-Learn , Matplotlib
- **Database & Data tools :**   SQL, Excel , MongoDb
- **Data Structures & Algorithms :**   Strong Problem solving skills
- **Soft Skills :**   Confident, quick learner, Good adaptability , Curious , Good at communication
- **Data Science & Machine learning :**   Data Cleaning & Preprocessing, EDA, Statistical Analysis, Deep Learning

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PROJECTS

AI Based Sign Language to Voice Converter   **Github-Link**

Tech Stack: Python, PyTorch, Torchvision, ResNet-18, NumPy, SciPy, PIL, Streamlit, Git, GitHub
- Built a real-time AI system that translates sign language gestures into speech using Computer Vision and Machine Learning.
- Utilized image preprocessing, hand detection, and classification models to recognize Indian Sign Language alphabets.
- Implemented deep learning techniques using Python-based frameworks for gesture prediction.
- Integrated a Text-to-Speech engine to generate real-time voice output from recognized signs.
- Deployed a working prototype capable of assisting communication for specially-abled individuals.

Smart Water Management System

Tech Stack: IoT, ESP8266, Ultrasonic Sensor, Water Flow Sensor, Relay Module, Python,
- Designed and developed an IoT-based smart water management system for real-time tank level monitoring of water
- Implemented intelligent pump automation logic (automatically ON below 25% and OFF above 90%) to prevent water shortage and overflow.
- Developed a real-time dashboard for live monitoring of tank levels, system status, and remote pump ON/OFF control.
- Reduced manual intervention and improved water efficiency through automation and data-driven monitoring.

Freelance Portfolio Website – Client Project (International Client)   **Website link**

Tech Stack: HTML, CSS, JavaScript
- Designed and developed a fully responsive personal portfolio website for an international freelance client.
- Implemented modern UI/UX design principles to enhance visual appeal and user engagement.
- Built dynamic and interactive components using JavaScript. Ensured cross-browser compatibility and mobile responsiveness.
- Optimized website performance for fast loading and smooth navigation.

WORK EXPERIENCE

Data Science Intern | Vaidsys Technologies   **May 25 – June 25**
- Performed data cleaning and preprocessing on real-world datasets using Pandas and NumPy.
- Conducted Exploratory Data Analysis (EDA) to identify trends, patterns, and correlations. Handled missing values, outliers, and inconsistent data to improve dataset quality.
- Built interactive dashboards to visualize KPIs, trends, and business insights. Generated data-driven insights to support decision-making processes.

CERTIFICATIONS

1) **Data Science with Generative AI Course– PW Skills**   4) **Programming in Python – Intel**
2) **Data Science Internship Certification – Vaidsys Technologies**   5) **Zinnovatio 3.0 (CU hackathon)**
3) **Advanced Python Programming – Intel**   6) **Innovate 1.0 (Project Based Learning in BFGI)**

SUMMARY

Motivated and passionate Computer Science (Artificial Intelligence & Machine Learning) student with a strong enthusiasm for Data Science and Machine Learning. Experienced in hands-on projects, data-driven problem solving, and collaborative learning. Skilled in statistical analysis, machine learning algorithms, data cleaning, and preprocessing. Eager to contribute to impactful projects.