Rajan Kumar Sharma

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GitHub | LinkedIn

EDUCATION

IIT-PATNA
BACHELOR'S OF TECHNOLOGY
2021-25 | Patna, Bihar
CPI: 6.87

DAV HIGH SCHOOL
2020-21 | Gopalganj, Bihar
12th BSEB. Percentage: 78

HOLY KIDS INTERNATIONAL
2018-19 | Chhapra, Bihar
10th CBSE, Percentage: 94.6

SKILLS

PROGRAMMING
Python • C++ • C • JavaScript • SQL • NoSQL

DEVELOPMENT
HTML • CSS • React • Bootstrap • Tailwind • Express • MongoDB

TOOLS AND LIBRARIES
ReactJS•NodeJS • Pandas • NumPy • Matplotlib • GitHUB • PostgreSQL • MySQL • Visual Studio Code • Excel • NPM

INTERESTS
Data Structures • Algorithms •GenAI • Web Development • Problem-Solving •Software Development• Data Analysis

COURSEWORK

- Data Science
- Linear Algebra
- Discrete Mathematics
- Macroeconomics
- Microeconomics
- Machine Learning

SOFT SKILLS

- Communication
- Adaptability
- Time Management
- Leadership

PROJECTS

CROP RECOMMENDATION SYSTEM (ML PROJECT) | GITHUB
- Developed a machine learning model with 95% accuracy to recommend crops based on soil and environmental factors.
- Built a responsive web interface using Flask and Bootstrap for user input of 7+ parameters (e.g., N, P, K, pH, rainfall).
- Trained on 2,200+ samples using Decision Trees and other algorithms for robust predictions.
- Optimized performance to achieve sub-500ms prediction latency for smooth user experience.
- Tech: Python, Flask, Scikit-learn, Pandas, NumPy, Bootstrap, HTML/CSS

AI-POWERED FITNESS PLANNER | GITHUB
- Built an end-to-end AI fitness assistant using LLMs to generate personalized workout and diet plans
- Developed a responsive chatbot with LangChain memory for context-aware, ongoing fitness coaching
- Deployed a Streamlit app featuring workout logs, progress tracking, and adaptive planning
- Tech: Python, LLaMA API, Groq, Streamlit, LangChain

PIZZA SALES ANALYSIS | GITHUB
- Crafted a detailed Power BI sales dashboard that analyzed pizza sales data.
- Delivered insights on revenue, order value, and sales trends, improving decision-making by 40
- Ensured accurate data integration from CSV files into PostgreSQL, maintaining data integrity.
- Tech: SQL, Excel, Power BI

COMPETITIVE PROGRAMMING

- **3 Star on CodeChef** — Max rating 1620
- **Global Rank 68** — CodeChef Starters 111 Contest
- **500+ Problems Solved** — Across platforms such as Codeforces, CodeChef, LeetCode, etc.

SOCIETIES/EXTRA-CURRICULAR ACTIVITIES

- Sub-Coordinator of Media & Public Relations in Sports Festival Infinito'22.
- Mentor in Student Mentorship Program (SMP), IIT Patna.
- Volunteer in Celesta'21 annual sports fest of IIT Patna.