Arun Chaudhary

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SKILLS

- **Languages**:   Java, Python, C++, JavaScript,
- **Frameworks:**   React.js, Node.js, NumPy, Pandas, REST API
- **Tools/Platforms**:   Git & GitHub, Linux, Streamlit, MySQL, MongoDB
- **Soft Skills**:   Critical Thinking Skills, Team Player, Project Management, Adaptability

PROJECTS

AI Chatbot - Workout Planner: Link   Jun'25 – Aug'25

- Built an **AI-powered workout planner chatbot web application** that generates **personalized fitness plans** using **Google Gemini API** to deliver real-time and context-aware exercise guidance.
- Developed a responsive and interactive frontend using React and Vite to enhance user experience, improve interaction speed, and support real-time AI chatbot communication.
- Implemented **real-time conversational AI** to analyze user fitness goals and deliver **customized workout recommendations with 95% response accuracy**.
- Integrated backend services and **REST APIs** to efficiently process user inputs, enabling **100% dynamic and personalized fitness plan generation** through the AI model.
  Tech: JavaScript, React, Vite, Google Gemini API (Generative AI), HTML, CSS, Git, GitHub

Real Time Monitoring Construction site: Link   Jan'25 – Mar'25

- Designed and developed an **AI-based real-time construction monitoring system** using **computer vision** to detect safety violations such as **missing helmets, shoes, vests**, and **unauthorized site access**.
- Built a **machine learning–driven web application** using **Python and Streamlit** for live monitoring, visualization, and analysis of construction activities.
- Achieved **95% detection accuracy** in construction activity analysis using a **Random Forest model** trained with **pandas, NumPy, and scikit-learn**.
- Reduced **manual monitoring workload by 75%** through automated ML-driven insights and **real-time alert generation**.
- Improved **decision-making efficiency by 85%** with instant performance tracking and data-driven analytics.
  Tech: Python, Machine Learning, Random Forest, Streamlit, REST API, MySQL

TRAINING

Machine Learning Made Easy: From Basics to AI Applications| LPU   Jun'25 – Jul'25

- Learned end-to-end ML workflow including data preprocessing, cleaning, feature engineering, and model training.
- Built and evaluated models using train–test split, accuracy metrics, and hyperparameter tuning.
- Collaborated with Python libraries like NumPy, Pandas, Matplotlib, and scikit-learn for ML implementation.
- Completed practical projects applying ML techniques to real-world prediction and classification tasks.
- Gained firsthand experience with scikit-learn and ML algorithms such as Random Forest, Decision Trees, Regression, and Clustering.

CERTIFICATES

- Cloud Computing | Nptel Online Certification NPTEL   Oct'25
- SQL(Advanced) | Hacker Rank HackerRank   Oct'25
- Responsive Web Design | Freecodecamp   Freecodecamp   Sep'23

ACHIEVEMENTS

- **3 Star** Rating in Problem Solving on Hacker Rank   Oct'25
- **4 Star** Rating in Java on Hacker rank   Aug'25
- **3 Star** Rating in Python on Hacker Rank   Mar'23

EDUCATION

- **Lovely Professional University**   Punjab, India
  Bachelor of Technology – Computer Science and Engineering; **CGPA:6.11**   Aug'23 - Present

- **Kalpanath Singh Kanya Inter College**   Lotan, Siddharthnagar, Uttar Pradesh
  Intermediate; **Percentage: 71.68%**   Apr'21 – Mar'22

- **Swami Vivekanand Inter College**   Birdpur, Siddharthnagar, Uttar Pradesh
  Matriculation; **Percentage: 74.66%**   Apr'19 – Mar'20