

Pranav Rana

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Experience

Goldman Sachs (Remote, New York)

Jan 2025 - Feb 2025

Governance Analyst - Trainee

- Identified and documented 5+ critical security vulnerabilities in legacy password systems, leading to 2x security enhancement through recommended multi-factor authentication.
- Authored a comprehensive security assessment report, detailing vulnerabilities in password policies and recommending multi-factor authentication solutions.

Skills

Languages: C++, Python, JavaScript, TypeScript, SQL

Technologies & Tools: React.js, Next.js, Node.js, Tailwind CSS, TensorFlow, Keras, Scikit-Learn, Flask, Gradio, Pandas, NumPy, Joblib, MongoDB, Hugging Face Spaces, Firebase, Git, GitHub, VS Code

Project Work

Purchase Pulse (Advanced Car Price Prediction System with ensemble learning, and dual-platform deployment [Desktop & Web])

- Developed an end-to-end ML system achieving 90%+ R^2 accuracy using ensemble methods trained on 2,000 data points with **5-fold cross-validation**.
- Engineered **15+ advanced features** including brand intelligence and power-to-weight ratios, reducing prediction error by 25% through depreciation modeling
- Deployed on Hugging Face Spaces and built professional Tkinter desktop application with 5+ interactive features
- **Technologies Used:** Python, Scikit-Learn, Pandas, NumPy, Tkinter, Gradio, Hugging Face Spaces, joblib, GridSearchCV

Chai Tube (Video Streaming Platform with modern UI/UX design inspired by YouTube)

- Built a responsive video streaming platform using React.js and Tailwind CSS, achieving **~40% reduction** in initial load time through lazy loading and optimized component architecture.
- Engineered comprehensive video search and playback functionality.
- **Technologies Used:** React.js, Tailwind CSS, JavaScript, HTML5, CSS3

Achievements

– Actively solving DSA problems on [LeetCode](#) & [GFG](#), enhancing proficiency in algorithm design and optimization. **1st runners-up** in IEEE IC Hack 2.0 **among 300 teams**. Ranked among the **Top 5 teams** in **MUJ HackX 2023** out of 500+ participants.

Education

Manipal University Jaipur

Aug 2023 - May 2027 (Expected)

BTech in Computer Science and Engineering (AI & ML)

Relevant Coursework: Machine Learning, Data Structures & Algorithms, Object-Oriented Programming, Database Systems, Artificial Intelligence (Deep Learning), Operating Systems, Computer Networks