Aman Paswan

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Education

Jaypee Institute Of Information Technology,Noida Sec.-62, Up	2022 – 2026

B.Tech. in Computer Science and Engineering

Bhilai Nair Samajam, Bhilai,CG	2019 – 2021

Higher Secondary Education

Projects

DengueScope   09/2024 - Present

- Created a multi-modal AI framework to predict dengue outbreaks for 20+ cities using 15+ years of geospatial, climatic, socio-economic, and behavioral data (e.g., Google Trends).
- Applied machine learning models such as CatBoost, LSTM, Temporal Convolutional Networks (TCN), and Temporal Fusion Transformer (TFT) to forecast outbreak patterns with predictive accuracy of 85-90
- Enhanced model performance by 20% through trends-based feature augmentation, uncovering strong correlations between search trends and outbreak data, and delivered advance forecasts to support early warnings and public health interventions.
- Technologies Implemented: **Python, Machine Learning, DL, Data Analytics.**
- GitHub Link

CryptoDrive   10/2024

- Built a secure document management platform leveraging AES-GCM encryption for confidentiality and IPFS for decentralized storage, providing 256-bit encryption (2128 brute-force resistance).
- Integrated client-side encryption with Web Crypto API, Pinata Cloud API, and MongoDB for encrypted storage and metadata management, while incorporating JWT-based authentication for secure user sessions, reducing server-side processing by 25-30]% based on benchmarks.
- Technologies Utilized: **React.js, Node.js, Express.js, IPFS, MongoDB.**

Metro Management   03/2024

- Developed an Advanced Metro Operations System: Designed and implemented a system using C++ and DSA to enhance metro performance, passenger experience, and urban mobility.
- Integrated Smart Features: Enabled smart ticketing, real-time monitoring, predictive maintenance, and data-driven decision-making for efficient and sustainable operations.
- Leveraged advanced algorithms to improve operational efficiency and urban transit management.
- Technologies Used: **C++, Data Structures and Algorithms (DSA).**

Technical Skills

Programming Languages: Python, C/C++, JavaScript, PHP, SQL.

Frameworks and Libraries: React.js, Next.js, Node.js, TensorFlow, Pandas, Scikit-learn, Streamlit.

Databases: MongoDB, MySQL.

Tools and Platforms: Git, VS Code

Soft Skills

Leadership, Problem-Solving, Technical Collaboration, Multilingual (English, Hindi).

Interests

Machine Learning, Entrepreneurship, Video Games