

# Suraj Vishwakarma

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## Skills

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**Languages:** C/C++, Python, JavaScript

**Technologies & Tools:** Django , Reactjs , Nextjs , streamlit ,CI/CD ,Git

**Soft Skills:** Teamwork, Communication, Problem-solving, Time Management

## Education

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**Lovely Professional University**

**Aug 23 - Aug 27**

**B.Tech in Computer Science and Engineering**

Relevant Coursework: Object Oriented Programming, Databases, Discrete Maths, Data Structures and Algorithms, Operating Systems, Computer Networks , Fullstack developements.

## Project Work

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**PowerDemand AI: (SIH 2024 Finalist) Predictive Electricity Demand Modeling**

*Engineered an advanced AI-powered application to forecast electricity demand, including peak usage predictions, for the Government of NCT of Delhi's power management system.* 🌐 [github Repo](#)

- Developed a LSTM-based machine learning model for accurate short- and long-term electricity demand projections.
- Integrated the model into a Next.js application, providing an interactive, real-time interface for data visualization and user insights.
- Constructed secure, scalable APIs to streamline data exchange between the frontend and machine learning model, optimizing performance.
- **Tech Stack:** Next.js, LSTM Machine Learning Model, Python (model training), Tailwind CSS , prisma , postgresql

**FlexCode DSA Visualizer**

*Developed an interactive platform to visualize data structures and algorithms (DSA) in real-time to enhance learning and comprehension.* 🌐 [github Repo](#) [live link](#)

- **Feature-Rich Visualizer** Implemented visualizations for common data structures (Arrays, Linked Lists, Trees, Graphs) and algorithms (Sorting, Searching).
- **Interactive Controls** Enabled step-by-step execution, pausing, and rewinding of algorithm animations.
- **User Engagement** Integrated gamified challenges to reinforce understanding through hands-on exercises.
- **Code Editor Integration** Embedded a real-time code editor to customize and run algorithms within the platform.
- **Performance Optimization** Ensured smooth animations using optimized JavaScript and WebGL rendering.
- **Tech Stack** JavaScript, HTML/CSS, React, D3.js, WebGL, Ace Editor

**Cryptocurrencies Price Tracker (2024)**

*Developed a python application to track and visualize cryptocurrency prices.* 🌐 [github Repo](#) [Live Link](#)

- Created an interactive dashboard using Streamlit to monitor real-time prices of various cryptocurrencies.
- Implemented features to track price changes with a user-defined time frame, displaying data with timestamps.
- Displayed latest bid and ask prices in a dynamic DataFrame.
- Retrieved and plotted historical price data using Matplotlib for line charts and Plotly for candlestick charts.
- **Tech Stack:** Python, Streamlit, Pandas, Matplotlib, Plotly , Gemini API ,Cryptocompare API

## Awards and Certificates

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- Generative AI Course With Langchain and Huggingface on udemy
- Machine Learning and Deep Learning Specialization on udemy