# Samarth Pratap Singh

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🌐 Portfolio | GitHub | LinkedIn

**AI/ML Learner | Full-Stack Developer | Skilled in C++, Next.js & Model Deployment**

*Passionate full-stack developer and AI/ML enthusiast skilled in building scalable web applications using Next.js, TypeScript, and modern backend stacks. Experienced in Python and C++ with **130+ LeetCode** problems solved. Currently diving deep into machine learning and NLP, aiming to blend robust engineering with intelligent systems.*

## TECH STACK

- **Frontend:** Next.js, React.js, TypeScript, JavaScript, SCSS, HTML, CSS, Tailwind CSS, BootStrap
- **Backend:** Node.js, Prisma, JWT, Zod, Docker
- **Databases:** PostgreSQL, MongoDB, SQLite
- **Languages:** C/C++, Python, Java, JavaScript, TypeScript
- **Tools & Libraries:** PyQt, Tkinter, CustomTkinter, Git, GitHub
- **Machine Learning:** NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn,EDA
- **Others:** Data Structures & Algorithms, REST APIs, Object-Oriented Programming (OOP)

## PROJECTS

### Project Loom

https://projectloom.vercel.app/

- **Built with Next.js (App Router), TypeScript, Tailwind CSS, and Sanity.io** for a modern, scalable platform.
- **Features project posting, user profiles, search/filter, view tracking, and bookmarking** for easy project discovery
- Optimized with SSR & ISR for performance and a fully responsive, clean UI for a seamless experience.
- **Sanity.io as the database** ensures efficient content management and dynamic updates

### Loan Approval Predictor

https://ml-learning-vtbk.onrender.com/

- Built a logistic regression model to predict loan approval using a public Indian loan dataset.
- Achieved 85%+ accuracy with precision/recall analysis using scikit-learn.
- Conducted feature engineering, data cleaning, and EDA for better model performance and interpretability.
- Deployed as a Flask web app with a user input form and real-time predictions.

### Dexplorer

https://dexplorer-pokemon.vercel.app/

- Developed DExplorer, a Pokédex-style web app using React.js, JavaScript, and Tailwind CSS, enabling users to browse, search, and filter the original 150 Pokémon with real-time interactivity.
- Implemented responsive UI featuring dynamic Pokémon cards displaying key stats (HP, Attack, etc.), optimized for speed and mobile-first performance.
- **Designed scalable architecture** to support upcoming features like dark mode, favorites, and side-by-side Pokémon comparisons, enhancing user personalization and engagement.

## EDUCATION

**Bachelor of Technology - BTech, CSE(AIML)**
**Vellore Institute of Technology** ***Sept-2023 - 2027***