

Karan Pratap Singh

itskaranpratapsingh@gmail.com | GitHub | LinkedIn | Portfolio

About

I'm Karan Pratap Singh, a B.Tech student passionate about finance, data analytics, and machine learning. I analyze complex datasets using statistical methods, predictive modeling, and analytical tools to uncover insights for smarter financial and business decisions. Skilled in Python, SQL, and ML frameworks, I combine technical expertise with curiosity for financial markets to build data-driven solutions. I also leverage UI/UX design and AI tools to create user-centric, efficient, and visually engaging applications, aiming to deliver impactful, real-world outcomes.

Skills

- **Programming:** Python, Java, C, C++, SQL
- **Data & Analytics:** Excel, Power BI, Tableau, Google Data Analytics, scikit-learn, Prophet
- **Web / Design:** Web Development, UI/UX, Figma, Adobe Photoshop, Streamlit
- **Cloud / Tools:** AWS, Azure
- **Core Strengths:** Data-driven problem solving, Predictive Modeling, Statistical Analysis, Creative Thinking

Work Experience

- Head Designer – College Sports Club, PSIT Kanpur** 2024–2025
- Led the design and development of posters, social media campaigns, and website for the college sports club.
 - Improved UI/UX and visual branding across all club assets.
 - Built a fully functional web platform for club events, registration, and results tracking.

- UX/UI Intern – Tackle Studioz** 3 months
- Designed multiple dashboards and user interfaces for web applications.
 - Contributed to development of a full-fledged ERP system for improved workflow and efficiency.

Education

- Pranveer Singh Institute of Technology, Kanpur** 2023 – 2027
B.Tech in Information Technology CGPA: 7/10
- Mother Teresa Mission Higher Secondary School**
- 12th Grade Percentage: 70%
10th Grade Percentage: 91%

Projects

- **CardSentinel:** Developed a credit card fraud detection app using Streamlit. Used Logistic Regression to classify transactions. Preprocessed data (normalization, feature selection) and evaluated with accuracy, confusion matrix, precision, recall, F1-score. *Python, scikit-learn, Streamlit, Pandas, NumPy*
- **AQIPredictor:** Forecasted hourly AQI using historical pollutant data with Facebook Prophet, modeling trends, seasonality, and holidays. Visualized predictions with confidence intervals and time-series plots. *Python, Prophet, Pandas, Matplotlib, NumPy*
- **S&P 500 Stock Price Prediction:** Predicted S&P 500 stock prices using historical data from yfinance. Applied Linear Regression and Random Forest Regressor, backtested predictions, and visualized forecast vs actual. *Python, yfinance, scikit-learn, Pandas, Matplotlib*

Certifications & Achievements

- ICPC Asia Kanpur Preliminary Contest
- Google Data Analytics Professional Certificate
- Financial Markets – Yale University
- How Software Ate Finance – Stanford University