


# Karan Pratap Singh

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## PROFILE

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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 that drive smarter financial and business decisions. Skilled in Python, SQL, and machine learning frameworks, I combine technical expertise with a curiosity for financial markets to build data-driven solutions. Additionally, I leverage UI/UX design and AI tools to create user-centric, efficient, and visually engaging applications. My goal is to integrate analytics, machine learning, and financial knowledge to deliver impactful, real-world outcomes.

## EDUCATION

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2023 - 2027 B.Tech in Information Technology at **Pranveer Singh Institute of Technology**

## SKILLS

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Programming	Python, Java, C, C++, SQL
Data	Tableau, Google Data Analytics
Development	Web Development, UI/UX, Figma
Design	Adobe Photoshop
Cloud	AWS
Core Skills	Creative Thinking, Adaptability to Change

## PROJECTS

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### CardSentinel

Developed a Streamlit app to detect credit card fraud using Logistic Regression. Users can input transaction details to predict fraud, with model metrics like accuracy, confusion matrix, precision, recall, and F1-score.

### AQIPredictor

Built a Python app using Facebook Prophet to forecast hourly Air Quality Index (AQI). Processed historical pollutant data to capture trends and seasonality, providing predictions with confidence intervals.

### Sentiment Analyser

Created a tool using Twitter API for real-time sentiment analysis on a topic or keyword. Collected tweets, performed preprocessing, and classified sentiments as positive, negative, or neutral, with visual insights.

## CERTIFICATIONS

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- ICPC Asia Kanpur Preliminary Contest
- Google Data Analytics Professional Certificate
- Financial Markets by Yale University
- Web Development Bootcamp