

# Sahal Patel

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## Education

**Master of Science, Artificial Intelligence & Data Science | SVKM'S Usha Pravin Gandhi** (CGPA: 8.5/10) **2024-2026**

Courses: Machine Learning, Deep Learning, Neural Networks, Statistical Analysis, Data Visualization, Predictive modelling, Time Series Analysis

**Bachelors of Science, Information Technology | SVKM'S Usha Pravin Gandhi** (CGPA: 9/10) **2021-2024**

Relevant Coursework: Programming in C/C++, Data Structures, Database Management Systems, Web Technologies, Operating Systems, Software Engineering, Computer Networks, Cloud Computing, Data Analytics, Cybersecurity

## Publication

A Comprehensive Review on Sentiment Analysis and Predictive Models for NIFTY 50 Market Trends.

Published in *AIJFR (Artificial Intelligence Journal for Research)*, 2024

<https://aijfr.com/research-paper.php?id=1590>

## Professional Experience

**Brandmark Solutions.,** Mumbai, India

**Data Analyst**

**02/2024 - 08/2025**

Collected, cleaned, and interpreted large datasets to support data-driven business decisions.

- Developed interactive dashboards and detailed reports to track performance metrics.
- Identified key trends and insights that enhanced operational efficiency and marketing outcomes.
- Collaborated with cross-functional teams to optimize campaigns and automate data workflows.
- Ensured data accuracy, consistency, and integrity across multiple business systems.
- Streamlined reporting processes to improve decision-making speed and reliability.

**Sankhya Analytics, Mumbai, India**

**Data Analyst Intern**

**06/2024 - 04/2025**

- Developed a prediction model to forecast the next-day opening direction of the NIFTY 50 index using historical market data and news sentiment.
- Performed sentiment analysis on financial news and social media data using FinBERT and RoBERTa transformer models.
- Collected, cleaned, and preprocessed large datasets comprising stock prices, market indicators, and sentiment scores.
- Applied machine learning and natural language processing (NLP) techniques to improve model accuracy and interpretability.
- Visualized model outputs and insights using Python libraries such as Matplotlib and Seaborn for better data storytelling.
- Collaborated with mentors to evaluate model performance using metrics like accuracy, F1-score, and ROC-AUC.

**Womb Foundation, Website and Data Management**

**2021-2022**

- Maintained accurate confidential records of beneficiaries, volunteers etc

## Skills

- Technical: Microsoft Excel, Power BI, Tableau, Python, SQL, R, Statistical Analysis, Data Visualization

## Projects

- Web Scraping and Data collection - Developed automated scripts to extract and structure data from multiple websites. Collected and cleaned large datasets for analysis.
- Developed a machine learning model to predict the next-day opening direction of the NIFTY 50 index using historical market data and sentiment analysis. Integrated FinBERT and RoBERTa models to analyze financial news sentiment, enhancing prediction accuracy and market insight.

## Personal

- Sports enthusiast (NBA, Soccer, Formula 1, and Cricket), Psychological thrillers, Sci-Fi movies fan, adrenaline junkie