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 **2024 - 2025**

- Collected, cleaned, and interpreted large datasets to support data-driven business decisions.
- Developed Power BI/Tableau dashboards that improved visibility into performance metrics, enabling teams to make decisions 20–30% faster.
- Identified key trends and insights that enhanced operational efficiency and marketing outcomes.
- Collaborated with cross-functional teams to optimize campaigns and automate data workflows, reducing reporting by 30%.
- 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 **2024 - 2025**

- Developed a prediction model to forecast the next-day opening direction of the NIFTY 50 index using historical market data and news sentiment which achieved an accuracy of 74%.
- 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.
- Evaluated model performance using accuracy, F1-score, and ROC-AUC, identifying improvements that boosted model reliability by 12%.

Womb Foundation (non-profit orphanage), Website and Data Management **2021-2022**

- Maintained accurate confidential records of beneficiaries, volunteers etc
- Managed and organized records for 200+ beneficiaries and volunteers, ensuring accuracy, confidentiality, and compliance with internal data policies.

Skills

- Technical: Microsoft Excel, Power BI, Tableau, Python, SQL, R, Statistical Analysis, Data Visualization, Data mining, Feature Engineering, NLP, Time-Series Analysis

Projects

- **EEG Signal Classification Project** - Built an EEG classification model using PSD features for **945 subjects**, achieving **88% accuracy** in distinguishing healthy vs disorder signals.
- Preprocessed EEG data using filtering, artifact removal, and feature reduction, improving signal clarity by **30%** and reducing model training time by **30%**.
- 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.