

NILESH RAJ

COMPUTER SCIENCE ENGINEER

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SUMMARY

I am a passionate machine learning enthusiast with a strong foundation in both the theoretical and practical aspects of the field. My interests span across data-driven problem solving, predictive modeling, and algorithmic optimization. In addition to my machine learning expertise, I have hands-on experience in full-stack development, including front-end technologies like HTML, CSS and JavaScript as well as back-end frameworks such as Flask

TECHNICAL SKILLS

C++	HTML	OpenCV	Scikit-learn
Python	CSS	Flask	Pandas
Java	JavaScript	Matplotlib	numpy

PROFESSIONAL EXPERIENCE

- Bitcoin Price and Trend Prediction System

Dec 2024

 - Developed a full-stack web application to forecast Bitcoin prices using an LSTM neural network trained on historical data.
 - Built a Flask-based RESTful API to serve predictions and integrated it with a responsive frontend using HTML, CSS, and JavaScript.
 - Implemented interactive data visualization with Chart.js to display real-time predictions alongside historical trends.
- Solar Panel efficiency

May 2025

 - Predicted solar panel efficiency using machine learning on sensor data.
 - Handled missing values, encoded labels, and scaled features.
 - Trained regression models and evaluated performance with scikit-learn.
- Movie Sentiment Analysis Using NLP

Ongoing

 - Built an NLP model to classify movie reviews as positive or negative.
 - Preprocessed text using tokenization, stopword removal, and vectorization.
 - Trained and evaluated classifiers using scikit-learn and achieved accurate sentiment prediction.

EDUCATION

- Army Public School

2012 - 2023

Class X : 92%

Class XII : 77%
- Bachelor of Computer Science VIT Bhopal University

2023 - 2027

CGPA : 8.78

ADDITIONAL INFORMATION

- Languages:** Hindi, English
- Certifications:** GenAI IBM, CPP Programming Udemy, Hands-On Machine Learning Udemy