

NIKHIL SOMNATH BORADE

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CAREER OBJECTIVE

Results-oriented Computer Science graduate with hands-on experience in Machine Learning, NLP, and Generative AI. Skilled in building and deploying end-to-end AI applications using Python, Scikit-learn, TensorFlow, and Streamlit on AWS. Seeking an entry-level Data Science / AI/ML role to build impactful data-driven solutions.

TECHNICAL SKILLS

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|--------------------------|--|
| Programming: | Python, SQL |
| Machine Learning: | Classification, Regression, Feature Engineering, Model Evaluation, Hyperparameter Tuning |
| Libraries: | Pandas, NumPy, Scikit-learn, TensorFlow, NLTK |
| NLP: | TF-IDF, Text Preprocessing, Sentiment Analysis |
| Visualization: | Matplotlib, Seaborn, Power BI |
| Deployment: | Streamlit, AWS EC2, Model Serialization (Pickle) |
| Tools: | Git, GitHub, Jupyter Notebook |

PROJECTS and Experience

Gideon – Modular AI Assistant with Tool Integration *March 2026*

Python, LLM Integration, AI System Architecture |

- **Problem:** Users needed a unified AI assistant capable of handling diverse queries, calculations, and information retrieval from a single interface.
- **Approach:** Developed a modular architecture with intelligent query routing, persistent conversation memory, and integrated tools including calculator, system info, and web search modules.
- **Result & Impact:** Built an AI assistant that dynamically selects tools or generates LLM responses based on query context; showcases practical AI system design and modular architecture skills.

PharmaGen AI – Pharmaceutical Industry GenAI Assistant | [🌐 | Live Demo](#) *Feb 2026*

Python, Gemini 2.5 Flash, Prompt Engineering, Streamlit, AWS |

- **Problem:** Accessing pharma knowledge such as GMP guidelines, drug development lifecycle, and regulatory standards is complex and time-consuming for professionals.
- **Approach:** Engineered a domain-specific GenAI chatbot using Gemini 2.5 Flash with advanced prompt engineering, secure API integration, and session-based conversation memory for multi-turn dialogue.
- **Result & Impact:** Deployed a production-ready Streamlit application on AWS capable of answering complex pharmaceutical queries; demonstrates hands-on LLM integration and cloud deployment skills.

Sentiment Analysis using NLP – AWS Deployed Application | [🌐 | Live Demo](#) *Jan 2026*

Python, NLTK, TF-IDF, Scikit-learn, Streamlit, AWS |

- **Problem:** E-commerce platforms generate massive volumes of customer reviews, making manual sentiment analysis impractical at scale.
- **Approach:** Built a full NLP pipeline (tokenization, lemmatization, stopword removal, TF-IDF); trained and benchmarked Logistic Regression, Naive Bayes, Linear SVM, and Random Forest classifiers.
- **Insight:** Linear models (SVM, Logistic Regression) outperformed tree-based models on high-dimensional sparse text data.
- **Result:** Achieved **92%+ F1-score**; deployed as a real-time Streamlit web application on AWS EC2 covering the complete ML lifecycle.

Travel Package Purchase Prediction – ML Application | [🌐 | Live Demo](#) *Dec 2025*

Python, Random Forest, Feature Engineering, Scikit-learn, Streamlit |

- **Problem:** Sales teams lacked a data-driven method to identify customers most likely to purchase travel packages.
- **Approach:** Applied feature engineering, handled class imbalance, and trained a Random Forest classifier with cross-validation; evaluated using Accuracy, Precision, Recall, and F1-Score.
- **Insight:** Customer income, number of follow-ups, and pitch satisfaction score were the strongest predictors of purchase intent.
- **Result:** Built an interactive Streamlit app providing real-time purchase probability predictions from user inputs.

EDUCATION

Bachelor of Computer Science
Savitribai Phule Pune University,

July 2022 – May 2025
Nashik, Maharashtra

KEY STRENGTHS

- Live AWS-deployed AI/ML and GenAI projects demonstrating ability to move models from development to production.
- Proficient in Python with practical experience in TensorFlow, Scikit-learn, OpenCV, and Gemini LLM APIs.
- Strong analytical and problem-solving skills; fast learner with excellent communication and team collaboration.