

# Priyanka Solanki

7067045306 | Priyankka2612@gmail.com | [linkedin](#) | [GitHub](#)

## Objective

Enthusiastic B.Tech graduate in Artificial Intelligence with strong skills in **Python, AI/ML, Data Science, and Generative AI**. Seeking **AI/ML, Data Analyst, or GenAI** roles to apply **machine learning, deep learning, NLP, and data analysis** skills in real-world projects.

## Academic Qualification

Sage University Indore

Bachelor Of Technology Honors – Computer Technology, Artificial Intelligence: Final CGPA : 8.30 (78.85% | First Division)  
Nov 2021 – June 2025

## Work Experience

### Syndrem Consultancy Limited — AI Chatbot / Python Developer (Intern) | Delhi | 3 Months

- Built and integrated an AI-powered customer support chatbot using **OpenAI & Google Gemini models** to handle sales, order inquiries, and product queries.
- Developed backend using **Python & Django**, implemented API wrappers, and designed efficient prompt workflows.
- Optimized responses to improve accuracy and reduce manual support load.
- Gained hands-on experience in **Prompt Engineering, REST APIs, and AI integration** in real-world product.

### Oasis Infobyte — Machine Learning Intern (Work From Home)

#### Heart Disease Prediction

- Built a heart disease prediction model using **Python, Pandas & Scikit-learn**; implemented Logistic Regression and achieved ~85% accuracy.

#### Fake News Detection

- Developed an NLP-based classification model using **TF-IDF, tokenization & text preprocessing**, achieving strong accuracy in detecting fake vs real news.

#### Customer Segmentation

- Applied **K-Means Clustering** for customer segmentation; used **Elbow Method** to determine optimal clusters and visualized insights using Matplotlib for business decision-making.

## Skills

**Languages :** Python (advanced scripting, data manipulation).

**Frameworks & Libraries:** Pandas, NumPy, Matplotlib, TensorFlow, Keras, PyTorch, Transformers, Scikit-Learn, Librosa, Gradio, OpenCV, Langchain, Rag applications, API's, Regular Expression's, OpenAI API, Gemini API, Streamlit

**Tools & Technologies:** Generative AI (GenAI), Hugging Face (NLP model hub), Git, Jupyter Notebook, Large Language Models AI Agents, Vision Language Models, Automations

SMTP (smtplib), Email Automation, Campaign Automation, IMAP (reply handling), Email Deliverability

**Soft Skills:** Problem Solving, Effective Teamwork, Strong Communication

## Projects

### AI-Powered Educational Question Generation System

- Developed an AI system to automatically generate curriculum-aligned questions and answers using Python, OpenAI GPT, and Google Gemini APIs.
- Implemented two-stage LLM pipeline (planning → generation) with structured outputs for type-safe responses.
- Designed a provider-agnostic architecture supporting multiple LLMs with JSON Schema & Pydantic validation.
- Built a production-ready system with environment-based security, error handling, and modular, maintainable code.
- Applied AI/ML, NLP, Generative AI, and data validation techniques for educational content automation.

### Heart Disease Prediction

- Developed an ML model using Python, Pandas, and Scikit-learn to predict the likelihood of heart disease. Implemented logistic regression, achieving 85% accuracy. Created visualizations to explain feature importance.

### Fake News Prediction

- Developed a machine learning model in Python to classify whether a given news article is real or fake. I Used NLP techniques such as tokenization, TF-IDF vectorization, and stopword removal, and trained models like Logistic Regression, achieving good accuracy. I built this project to address the problem of misinformation and applied text preprocessing and classification algorithms effectively.

### Customer Segmentation

- In this project, I implemented K-Means clustering to group customers based on their purchasing behavior and demographics. After preprocessing features such as age, income, and spending score, I applied the Elbow Method to find the optimal clusters. The group were visualized using Matplotlib, providing insights that help businesses design targeted marketing strategies and improve customer engagement.

## Certifications

### SAMATRIX Consulting Private Limited:

Data Analysis Using Python,  
Foundation to AI Data science and Data Analytics,

### AWS Academy Graduate:

AWS Machine Learning Foundation

**META:** Introduction to Front End Development