

# Priyanka Solanki

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## 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