

# Ashmita Barnwal

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🌐 LinkedIn

🐙 GitHub

## Professional Summary

Passionate Data Scientist and AI Engineer with a strong foundation in computer science. Skilled in transforming complex data into actionable insights and building intelligent solutions. Experienced in machine learning, deep learning, full-stack development, predictive analytics, and data visualization. Enthusiastic about learning new technologies and contributing to open-source projects.

## Technical Skills

**Programming Languages:** Python, R, C, Java, SQL, JavaScript

**AI & Machine Learning:** Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, TensorFlow, PyTorch, Hugging Face, LangChain

**Web Development:** Shiny, React, Node.js, Express, Tailwind CSS, Bootstrap, Streamlit

**Databases:** MySQL, SQLite, MongoDB, Oracle

**Tools & Platforms:** Git, GitHub, Jupyter Notebook, Google Colab, Ollama

## Education

**B.Tech in Computer Science**

2023 – 2027

Specialization: Data Science

Heritage Institute of Technology, Kolkata

GPA: 9.11/10

## Experience

**Software Engineer Fellow (Remote)**

Jul 2024 – Sep 2024

*Headstarter AI, Long Island City, NY*

- Built 2 AI-powered web applications integrating **Next.js**, **Google Gemini**, and **Firebase**.
- Worked cross-functionally with a remote team to ship MVPs within tight sprint deadlines.
- Emphasized scalable frontend development and seamless AI integration for real-time interaction.

## Projects

**GramSathi**

GitHub

*MERN, GenAI, WebSocket, Tailwind CSS*

Engineered a multilingual telemedicine platform supporting real-time video consultations, AI-powered symptom triaging, offline medical record management, and emergency alert broadcasting using WebSockets. Integrated GenAI for multilingual health query handling and automated appointment workflows.

**D-Buddy**

GitHub

*R Shiny, XGBoost, Data Visualization*

Developed an interactive R Shiny application to predict diabetes risk using an XGBoost model trained on medical and lifestyle data. Implemented dynamic dashboards for personalized 3-course meal recommendations and risk analysis with real-time visualizations.

**ANN Churn Classification**

GitHub

*TensorFlow, Scikeras, Streamlit, Pandas, NumPy, Scikit-learn*

Developed an interactive Streamlit web app for customer churn prediction using a trained ANN model. Integrated pre-trained encoders and scalers for real-time user input processing, achieving accurate churn probability predictions with a user-friendly interface for business decision support.

## Certifications

- Complete Data Science, Machine Learning, Deep Learning, NLP Bootcamp 2025  
Issuer: KRISHAI Technologies Private Limited
- Complete Generative AI Course with LangChain and Hugging Face 2025  
Issuer: KRISHAI Technologies Private Limited
- Ultimate RAG Bootcamp Using LangChain, LangGraph & Langsmith Ongoing  
Issuer: KRISHAI Technologies Private Limited