Dhanashree Bose
Data Scientist

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in [LinkedIn](#)   ⊙ [GitHub](#)   k [Kaggle](#)

SUMMARY

Data Scientist with 2 years of experience, known for meticulous attention to detail and a results-driven approach. Proven track record in leveraging advanced machine learning algorithms and statistical modeling techniques to uncover patterns and extract actionable insights. Skilled in managing and executing diverse projects, collaborating with stakeholders to identify and resolve complex business challenges, and consistently delivering high-quality results

SKILLS

- **Languages:** Python, SQL, Linux (Basics), Hadoop (Basics)
- **Data Science:** Machine Learning, Deep Learning, Statistics, Neural Networks, Clustering, Bagging, Boosting, Time Series, Hyper Parameter Tuning, Model Deployment, Model Validation, Predictive Modeling, A/B Testing, Natural Language Processing, Computer Vision, API Building, Amazon Web services (Cloud Computing), Docker/Podman/Colima, Git, Streamlit, Generative AI, Large Language Models, RAG, Pinecone, Chroma DB, AI Agents, Azure Deployment, Azure VM, TTS and STT System Development, Whisper Model, CrewAI
- **Data Management:** Data Scraping, Feature Engineering, Feature Selection, Exploratory Data Analysis (EDA), Data Pipeline, Data Visualization, Data Mining
- **Tools & Libraries:** Power BI, Tableau, Flask API,Fast API NumPy, Pandas, SciPy, Scikit-learn, Plotly, TensorFlow, cv2, requests, imblearn, NLTK, BERT, Spacy, Langchain, HuggingFace, Keras
- **Other Tools:** Excel, PowerPoint, Office, Anaconda, GitHub, Postman, PyCharm, Jira
- **Soft Skills:** Client Interaction & Management, Strategic Planning, Presentation, Leadership

WORK EXPERIENCE

Data Scientist   January 2025 – present
PeopleTech Group   Hydrabad,Telangana

HR Chatbot Creation & Implementation:
- Built an HR Chatbot using **RAG, Pinecone, OpenAI API, OpenAI Embeddings, and LangChain Agent**.
- Containerized it using Docker and then **Deployed on AWS & Azure** for scalability and client needs.
- **Integrated OpenAI with vector databases** to retrieve accurate responses.

Data Scientist   October 2022 – February 2024
Srijan Technologies   Pune, Maharashtra

Chatbot using Amazon Lex, Elasticsearch, and Generative AI: -
- Configured chatbot intents, entities, and dialog flows with Amazon Lex for seamless user interactions.
- **Indexed 10,000+ data points into Amazon Kendra**, enhancing chatbot response accuracy and accessibility.
- Designed AWS Lambda functions triggered by Amazon Lex, **reducing response time by 25% through optimized preprocessing and generative AI enhancements**.

Ad Recommendation System: -
- Enhanced ad relevance using video transcriptions and OCR-extracted text for comprehensive content understanding.
- Employed embedding techniques to improve similarity analysis, **resulting in a 30% increase ad click-through rates**.

AI-driven Resume Generator using ChatGPT API: -

- Utilized ChatGPT API for context-aware resume generation, enhancing user customization and relevance.
- Applied prompt engineering skills and **reduced response time by 40%** by chaining prompts and initializing the ChatGPT API only once.
- Developed a RESTful API with Flask for seamless user interaction, improving accessibility and ease of integration.

- Designed AWS Lambda functions triggered by Amazon Lex, **reducing response time by 25% through optimized preprocessing and generative AI enhancements**.

Data Science (ML\NLP) Intern   **June 2022 – September 2022**

Srijan Technologies   Pune, Maharashtra

Named Entity Recognition (NER) System Development: -

- Utilized Spacy and Hugging Face Transformers to fine-tune and customize NER components**, achieving a 15% increase in entity recognition accuracy**.
- Deployed on AWS EC2 for scalable hosting, **ensuring 99% uptime** and **reducing infrastructure costs by 20%.**

KEY DATA SCIENCE PROJECTS

Domain: Healthcare |Tech Stack: Python | LINK

- Implemented Rescaling Layer to normalize image data ([0, 255] to [0, 1]), utilized Convolutional Layers for efficient feature extraction, and applied Pooling Layers to reduce feature map dimensions.
- Incorporated Dropout Layer to prevent overfitting and employed Flatten Layer to convert data into a format suitable for Dense Layers.
- Designed Dense Layers for robust classification, used ReLU Activation Function to enhance learning efficiency, and applied Softmax Activation Function for output probability distribution.

Domain: Finance | Tech Stack: Python | LINK

- Spearheaded exploratory data analysis (EDA) to uncover patterns and address data imbalances, employing standardization using scalers provided by sklearn.
- Constructed and optimized machine learning models, including Logistic Regression, Decision Trees, Random Forest, AdaBoost, and SVM, tuning hyperparameters via random search methods to enhance predictive accuracy.

EDUCATION

MS (AI/ML)   **Present**

Liverpool John Moores University   Pune, Maharashtra

Post Graduation Certification in AI/ML   **June 2023 – Nov 2024**
IIIT Bangalore & upGrad   Pune, Maharashtra

Post Graduate Program in Data Science   **June 2021 – June 2022**
Imarticus Institute   Pune, Maharashtra

Bachelor of Science (B.Sc.)   **June 2016 – July 2019**
Modern College of Arts, Commerce & Science   Pune, Maharashtra

ACHIEVEMENTS

- Authored and published a comparative analysis on ChatGPT, Hugging Chat, and Azure OpenAI on Medium. | **LINK**