

# Rhythm Bhavsar

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## EDUCATION

### Northeastern University

MPS in Applied Machine Intelligence

May 2026

Cumulative GPA: 3.8/4.0

### Gujarat Technological University (GTU)

B.Voc in Software Development

May 2023

Cumulative GPA: 9.4/10.0

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## WORK EXPERIENCE

### Voidek Webolutions

Bardoli, India

*Jr. Data Scientist*

January 2023 – June 2024

- Developed and deployed scalable **Machine Learning** models using **AWS SageMaker, Lambda, and API Gateway**, optimizing real-time data synchronization across **CRM and ERP** systems, which improved efficiency by **30%** and minimized data inconsistencies.
- Fine-tuned the **Llama** model on personalized datasets to build an **AI-powered chatbot**, enhancing customer interactions and response accuracy. Additionally, experimented with **Large Language Models (LLMs)** like **GPT** and **BERT** to identify the most effective model for automating business-specific tasks and improving user engagement.
- Automated CRM-ERP integration using **Deep Learning** and **NLP-based** models, reducing manual intervention by **70%** and enhancing data accuracy and workflow efficiency. Fetched and processed large-scale real-time data from **Putty Server** using **SQL**, deployed models via **Flask-based APIs**, and ensured seamless integration with enterprise applications for end-to-end automation.

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## PROJECTS

### AI-Powered Waste Recycle Management [GitHub](#)

February, 2025

- Developed a **CNN-based** deep learning model using **TensorFlow & Keras** to classify waste types, utilizing **OpenCV** for real-time image preprocessing (edge detection, segmentation, and contour analysis).
- Built an **AI-driven recommendation** system that suggests biofuel production methods (**biodiesel, bioethanol**) based on chemical composition analysis and research insights.
- Designed and deployed a Flask/FastAPI-based web interface, enabling real-time waste classification and sustainable recycling solutions.

### Breast Cancer Detection Using Histopathology Images [GitHub](#)

December, 2023

- Developed a **CNN-based** deep learning model to classify **IDC-positive** and **IDC-negative** cases from **histopathology** images, enhancing early breast cancer detection.
- Applied contrast **enhancement, normalization, and data augmentation** to improve classification **accuracy**, optimizing **hyperparameters** using **GridSearch** and **Transfer Learning (ResNet, VGG16)**.
- Deployed the model using Flask for real-time inference, enabling integration with healthcare applications to assist pathologists in diagnosis.

### News Classification System [GitHub](#)

March, 2024

- Designed an end-to-end **NLP pipeline** for web scraping, **text preprocessing**, and **feature engineering**, leveraging **NLTK, BeautifulSoup**, and **TF-IDF** vectorization.
- Built and optimized **LSTM** and **Bi-LSTM** deep learning models, experimenting with **Word2Vec, GloVe**, and **BERT-based** transformers, achieving **84.69%** classification accuracy.
- Deployed the system via a Flask-based **REST API**, enabling real-time news classification for content filtering applications.

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## CERTIFICATIONS AND TRAININGS

### Advanced Certificate Program in Data Science

Sept 2023 – May 2024

IIIT Bangalore & upGrad

### Data Science Bootcamp

Dec 2021 – May 2022

Odin School

### Azure Administration Essential Training

October 2024

LinkedIn Learnings

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## SKILLS

**Programming Languages / Paradigms:** Python, Functional Programming, Object Oriented Programming (OOP)

**Artificial Intelligence:** Deep Learning, Computer Vision, Natural Language Processing, Neural Networks, Fine-Tuning LLMs (Llama)

**Machine Learning:** Transformer Models (BERT, GPT), Reinforcement Learning, TensorFlow, Keras, Torch, Chatbot Development

**Data Science / Analytics:** IPython / Jupyter Notebook, SQL, Excel, Tableau, Web Scraping, Data Processing & Transformation

**Cloud & Deployment:** AWS (SageMaker, Lambda), Docker, Flask/FastAPI, REST APIs, Model Deployment & Monitoring

**Libraries:** NumPy, Pandas, Scikit Learn, TensorFlow, PyTorch, NLTK, Seaborn, Matplotlib, Beautiful Soup, Hugging Face Transformers