

# GYANJYOTI KALITA

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## Education

### Indian Institute of Technology

Master of Business Administration in Data Science and Artificial Intelligence(CGPA: 7.8/10)

Aug 2022 – May 2024

Mandi, H.P.

### Central Institute of Technology

Bachelor of Technology in Information Technology(CGPA: 7.7/10)

July 2018 – June 2022

Kokrajhar, Assam

## Skills

**Programming Languages:** Python, SQL

**Library & Framework:** Pandas, NumPy, Scikit-Learn, Spark, Matplotlib, Seaborn, TensorFlow, Keras, PyTorch, Langchain

**Databases:** MySQL, PostgreSQL

**Technologies & Tools:** PowerBI, Ms Excel, Azure Data Factory, Databricks, Data Lake Storage, Synapse Analytics

**Artificial Intelligence:** Machine Learning, Deep learning, Natural Language Processing

**Leadership & Soft Skills:** Product Management, Project Management, Collaboration, Communication, Problem-Solving

## Experience

### IndiGo (InterGlobe Aviation Ltd)

May 2023 – July 2023

AI Consultant Intern | Data Science and AI department

Gurgaon, Haryana

- Collaborated with the Data Science Team on the development of an XGBoost machine learning model for sector-wise monthly passenger load & flight price prediction using search data and travel time for next 3 months, optimizing operational costs by approximately 26%.
- Performed data cleaning and preprocessing on flight details data of 2M+ records for model training and analysis.
- Created an Azure ETL pipeline in order to help PowerBi Team to reduce request load from production PostgreSQL database. Leveraged Data Factory for extracting 1M+ records, Databricks for transformation, and Data Lake Storage/Synapse Analytics for loading and analysis.

### Brane Group

May 2022 – Sep 2022

Data Science Intern | AI department

Hyderabad, Telangana

- Contributed to the development of Brane VisionPlus, an AI-powered OCR solution that enables visually impaired individuals to extract text from documents like Pan Cards, Text Books, Aadhaar cards, etc., facilitating daily tasks.
- Implemented Character Error Rate(CER) metrics in python to assess the model performance, achieving a CER of 4%.

### Verzeo

Sep 2021 – Nov 2021

Machine Learning Intern

Bengaluru, Karnataka

- Developed an LLM model using BERT to analyze online shopping customer reviews and accurately gauge sentiments.
- Optimized model performance through hyperparameter tuning, enhancing it's efficiency and improving model generalization for more accurate sentiment analysis.

## Projects

GenAI RAG News Chatbot | Llama3.1, ChromaDB, Flask, GoogleGenerativeAIEmbeddings, Langchain

Sept 2024

- Developed a GenAI RAG News Chatbot using Llama 3.1 & Flask to provide users with relevant financial news directly. Leveraged Google Generative AI Embeddings & Chroma for efficient document indexing, improving search accuracy.
- Implemented a history-aware retriever to enhance information retrieval by considering past interactions.

Impact of social media on stock price | Python, R, R Studio, Stata, Excel, Sentiment Analysis

May 2024

- Analyzed Twitter tweet sentiment related to FMCG company using VADER & AFINN NLP technique from 2020-2024.
- Conducted statistical hypothesis testing (ADF, PP) to validate data stationarity & employed NARDL model to explore the causal relationship between Twitter sentiment & the company's stock, uncovering potential market insights.

## Achievements/Awards

### 3rd International Conference E2A-2023

Aug 2022 – Dec 2023

Research Paper on Computer Vision

- Accepted research paper on computer vision titled "Light Weighted YOLO Vehicle Tracker for Toll Gate using Centroid Algorithm" for publication at the 3rd International Conference on Emerging Electronics and Automation (E2A-2023). Springer(Link) Developed a computer vision AI model for accurate, real-time detection, recognition, and tracking of vehicles at toll gates.The system is highly accurate and efficient, suitable for real-time toll gate management.

### Inter IIT Tech-meet 2023

Nov 2022 – Feb 2023

3rd position at Inter IIT Tech-Meet

- Crafted Product Development solution that secured 3rd place at the Inter IIT Tech Meet, as proposed by Paradime.io. company(Link). Developed a comprehensive community product: A platform for users to share problems and receive help from the community with AI/ML-assisted question formulation and concise error messages.