

# Malhar Dhopate

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## Education

### Indiana University Bloomington

Master of Science (MS) in Data Science, **GPA: 3.90/4.00**

Bloomington, IN

Aug. 2023 – May 2025

### Lynn University

Bachelor of Science in Data Analytics, **GPA: 3.91/4.00**

Boca Raton, FL

Aug. 2018 – May 2021

## Technical Skills

**Languages:** Python, SQL (Postgres, MySQL, SQLite), R, Java  
**ML & NLP:** TensorFlow, PyTorch, BERT, spaCy, Generative AI, Embeddings, Sequence Classification  
**Cloud & Databases:** AWS, GCP, Neo4j, NoSQL (MongoDB), Pinecone, Hadoop, PySpark, Docker, Snowflake, GIT  
**Data Visualization:** Tableau, Power BI, Matplotlib, LangChain, Seaborn, Altair, D3.js, Plotly

## Experience

### Research Data Scientist | Indiana University

May 2024 – Present

Tech Stack | GPT-4, Speech Recognition, Speech-To-Text, Text-To-Speech, Pinecone, SQLite, RAG

Bloomington, IN

- Developed ‘Carry,’ an AI assistant capable of delivering dynamic, context-aware, & interactive user experiences.
- Created a transcription pipeline to capture & preserve the oral histories of women displaced from the Middle East.
- Implemented a modular NLP pipeline, reducing latency by 20% while improving response accuracy by 30%.
- Optimized audio transcription with embeddings, improving speech recognition accuracy by 15%.
- Automated session resets by implementing a real-time inactivity monitor, reducing idle session errors by 80%.

### Billing Analyst | Nationwide Automotive Services

Aug. 2021 – Apr. 2023

Tech Stack | Excel VBA, Process Automation, Tableau, Power BI

Boca Raton, FL

- Optimized billing by implementing VBA automation, boosting efficiency by 25% & cutting billing time by 30%.
- Achieved a 75% reduction in overdue accounts through consistent client follow-ups & effective payment plans.
- Trained & led a 5 people team, resulting in a 50% improvement in billing & enhancement in customer relationships.
- Created automated Tableau dashboards to report financial data monthly, improving reporting accuracy by 20%.

### Data Analyst | Lynn University

Jan. 2021 – May 2021

Tech Stack | SQL, Python, Tableau, Excel, R - Hypothesis Testing, Trend Analysis

Boca Raton, FL

- Analyzed enrollment & retention data, delivering insights that drove a 10% increase in student retention rates.
- Automated ingestion & transformation pipelines, cutting preparation time by 30% & boosting data quality by 40%.
- Designed 10+ dashboards to track microsite usage, improving the team’s understanding of user activity.

## Academic & Technical Endeavors

### Exploring Vegan & Vegetarian Dining in NYC

Aug. 2024 - Dec. 2024

Tech Stack | YELP Fusion API, ETL, Altair, Matplotlib, Plotly, D3.js

- Extracted 10,000+ restaurant, demographic & income data points to identify trends & potential growth areas.
- Created 10+ interactive visuals displaying disparities across boroughs & extracted insights for potential growth.

### A Cloud Computing Approach for Secure File Transfer

Jan. 2024 - Apr. 2024

Tech Stack | Python, Node.js, AWS - S3, EC2, Amplify

- Deployed a scalable cloud encryption system, to store, retrieve, & transfer files using S3 & Amplify authentication.
- Ensured 100% compliance with data security policies, & reduced transfer latency by 30%, utilizing EC2 instances.

### Graph Data Analytics & Neo4j Applications

Jan. 2024 - Apr. 2024

Tech Stack | Neo4j, Cypher, MongoDB, Compass, Node.js

- Integrated high-performance querying techniques into the existing database, improving query response by 30%.
- Improved recommendation accuracy by 20% by using graph-based PageRank & community detection algorithms.

### Toxic & Sarcastic Comment Classifier

Sep. 2023 - Dec. 2023

Tech Stack | Python, TensorFlow, Git

- Built high-precision comment classification model using bagging with Random Forest, SVM & Logistic Regression.
- Enhanced performance by building a robust model with NLTK libraries, leveraging the initial model as a baseline.

## Achievements & Certifications

- First Prize, Best Overall Presentation – 2024 FADS Showcase (Carry: Women’s Voice of Migration)
- AWS Certified Machine Learning Engineer - Associate – AWS
- Excel VBA & Macros – Udemy