

HARI SHIVANI GUDI

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EDUCATION

Indiana University, Luddy School of Informatics, Computing, and Engineering
Master of Science in Applied Data Science, GPA: 3.97/4.00

Indianapolis, IN
December 2024

National Institute of Technology
Bachelor of Technology in Biotechnology

Warangal, India
June 2022

WORK EXPERIENCE

Indiana University
Data Analyst, COMET Lab

Indianapolis, IN
January 2023-December 2024

- Developed and validated quantitative models using Python and PowerBI to analyze national health survey data, examining senior health trends in falls, diet quality, blood pressure, and cholesterol levels while ensuring data quality.
- Automated data retrieval from a healthcare ArcGIS feature server using Python and Selenium, improving workflow efficiency and reducing manual processing by 60% with streamlined data preprocessing.
- Reduced quarterly analysis time by 40% by creating interactive dashboards in Tableau and Looker Studio for GA4 data of a nonprofit, optimizing user engagement tracking for scalability and automation.

The Sparks Foundation
Data Science and Business Analytics Intern

India
June 2022-August 2022

- Built NLP models to analyze 10,000+ student reviews, enhancing sentiment analysis accuracy by 15%.

Nestle India Limited
Data Analytics Intern

India
October 2021-December 2021

- Analyzed packaging data, identifying 11 opportunities for sustainable materials, achieving an estimated 8% reduction in environmental impact.
- Created Tableau dashboards and reports to track key sustainability metrics and presented insights to the team's global head, supporting strategic decision-making and enhancing cross-team communication for process optimization.

PROJECTS

Project Manager, Smart Medicine Reminder Kit – Project Management

Fall 2024

- Led an eight-member team, utilizing business process analysis and project planning to define objectives and ensure stakeholder alignment.

Rentalytics – R, ML Algorithms

Spring 2024

- Spearheaded rent forecasting project with 99,125 listings, achieving 12% MSE reduction using Ridge Regression.
- Predicted rental price categories with highest accuracy using Multinomial Logistic Regression and KNN.

Flight Cancellations Prediction Model – PySpark, Alteryx, SQL, ML Algorithms

Fall 2023

- Implemented a Spark-based ML pipeline with advanced one-hot encoding feature engineering, evaluated four models, and achieved up to 0.72 ROC AUC, 0.69 PR AUC, and strong accuracy metrics.

Disaster Risk Management based on Machine Learning Approach – Python, NLP, ML Algorithms

Spring 2023

- Developed and implemented an effective disaster risk management system using ETL and ML pipelines, optimizing aid categorization for diverse disaster messages.

TECHNICAL SKILLS

Programming: Python, R, SQL, SAS

Framework/Libraries: Apache Spark, NumPy, Pandas, NLTK, SpaCy, Gensim, Scikit-Learn, TensorFlow, PyTorch

Data Visualization: Matplotlib, Seaborn, ggplot2, Tableau, PowerBI, Looker Studio, Alteryx, MS Excel, Plotly, D3.js.

Machine Learning Algorithms: Clustering, Deep Learning, Anomaly Detection, Supervised Learning, Unsupervised Learning, Natural Language Processing (NLP), Hypothesis Testing, Linear and Non-Linear Optimization.

LEADERSHIP AND ACTIVITIES

- Secured 2nd place in Data Visualization Competition — The Polis Center & Luddy School of Informatics, Computing, and Engineering — Indiana University.

Fall 2024

President, Business Club, NITW, India

2019-2022

- Actively involved in conducting events and knowledge-sharing sessions to promote financial literacy.
- Managed a team of 43 members, fostering a collaborative and productive environment.