

# Krishna Thakar

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## Technical Skills:

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- **Programming Languages:** R, Python, PostgreSQL, HTML, CSS, JavaScript, Java
- **Tools:** Pandas, Scikit-learn, Seaborn, Plotly, Matplotlib, APIs, NLTK, Streamlit, Flask, PowerBI, PyTorch, TensorFlow
- **Relevant Courses:** Data Analytics, Discrete Structures, Machine Learning, Adv Artificial Intelligence, Database

## Projects:

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### ASA DataFest 2025 – Winner, Best Use of Statistical Analysis | R, RStudio: [\[Link\]](#)

April 2025

- Analyzed 194,000+ U.S. commercial lease records to predict whether technology-sector tenants would relocate or renew, focusing on leases above 10,000 sq. ft.
- Improved model precision by 18% by cleaning duplicates, engineering variables like Space Type, Lease Year, and scaling features to align distributions before training Logistic Regression, Classification Tree, and Random Forest models.
- Focused on deriving insights through structured EDA, developing predictive models with balanced error metrics, and interpreting feature importance for real-world business decision support.
- Delivered an end-to-end analysis from raw data preprocessing to model evaluation within 24 hours, reinforcing data storytelling and hypothesis-driven modeling under tight timelines.

### Student Research Conference 2025 – Presenter, Sentiment Classification Using ML & Deep Learning: [\[Link\]](#)

April 2025

- Conducted a comparative study across 8 machine learning and deep learning models on a 20,000-sample Yelp review dataset to classify sentiment into positive, neutral, or negative categories
- Increased text processing efficiency by 25% by optimizing pipelines with TF-IDF, Word2Vec, and BERT embeddings based on model architecture, leading RoBERTa to achieve 80.1% accuracy and 0.93 AUC.
- Worked under the mentorship of Dr. Mohamed Abu Sheha and Dr. Emmanuel Thompson, focusing on experimental design, model benchmarking, and critical evaluation of traditional ML versus transformer-based architectures for large text data.

### New York Housing Price Analysis | Python, Pandas, Scikit-learn, Matplotlib: [\[Link\]](#)

June 2024

- Explored New York real estate prices by analyzing multiple structured datasets to uncover patterns between property size, neighborhood, and market value, identifying a 78% correlation between square footage and sale price.
- Improved price prediction accuracy by 30% by applying advanced preprocessing, feature selection, and regression analysis techniques across housing features; focusing on data-driven hypothesis validation, correlation analysis, and predictive modeling with clean visualization to uncover actionable real estate insights.

### Penny Planner | Streamlit, Plotly, OpenAI API: [\[Link\]](#)

July 2024

- Built a Streamlit-based application that parses bank statement uploads and analyzes income, expense, and transaction trends for real-time financial summaries.
- Focused on building interactive analytics dashboards, data cleaning pipelines, and delivering structured financial insights to improve personal financial literacy.

## Education:

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### Undergraduate in Computer Science w/ Minor: Data Science – 3.97 GPA

May 25'

Southeast Missouri State University

Dean's List - Fall 22, Spring 23 & Spring 24 | President's List - Fall 22, Spring 23 & Spring 24

### Coursera Certifications:

Supervised Machine Learning: Regression and Classification - Deeplearning.AI [\[Link\]](#)

Feb 24'

Exploratory Data Analysis for Machine Learning – IBM [\[Link\]](#)

June 24'

## Job Experience:

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### Resident Assistant – Southeast State Missouri University

Jan 23' – May 25'

- Developed strong relationships with 60+ residents by actively listening to their concerns and effectively communicating essential information about campus resources, policies, and procedures. And organized and led 10+ community-building events per year, increasing resident participation and fostering a more inclusive and engaged environment.

### Information Technology Staff – Southeast State Missouri University

Sept 23' – Jan 25'

- Provided prompt and efficient technical support to over 100 students and staff, resolving hardware and software issues.
- Managed the IT inventory for the lab, keeping track of all hardware and software assets and ensuring proper licensing and compliance.