

# Krishna Thakar

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## Technical Skills:

krsnathkr@gmail.com | [LinkedIn](#) | [GitHub](#)

- **Programming Languages:** Python, R, Java, JavaScript, HTML, CSS, SQL (PostgreSQL, MySQL), MongoDB
- **Frameworks & Libraries:** Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Plotly, Streamlit, OpenCV, NLTK, Hugging Face Transformers, TensorFlow, PyTorch, Keras, CUDA, LSTM, CNN, RAG LLM
- **Tools and Platforms:** Snowflake, Databricks, AWS (EC2, S3, PVS), Azure, Docker, Kubernetes, Git, Linux, CI/CD pipelines

## Education:

- Undergraduate in Computer Science w/ Minor: Data Science – 3.9 GPA May 25'  
Southeast Missouri State University  
Dean's List x 6 | President's List x 4
- Coursera Certifications: Feb 24'  
[Supervised Machine Learning: Regression and Classification - Deeplearning.AI](#) <Link>  
[Exploratory Data Analysis for Machine Learning – IBM](#) <Link> June 24'

## Job Experience:

- Undergraduate Student Researcher – Southeast State Missouri University <[Research Link](#)> Jan 25' – April 25'
  - Worked under the mentorship of Dr. Mohamed Abu Sheha and Dr. Emmanuel Thompson, comparing traditional ML models and deep learning models against fine-tuned RoBERTa for three-way sentiment classification.
  - Processed ~7 million Yelp reviews, performing text cleaning, tokenization, lemmatization, negation handling, vectorization, and balancing sentiment classes into equal thirds.
  - Developed and evaluated multiple models - including Logistic Regression, SVM, Naïve Bayes, Random Forest, BiLSTM, LSTM, CNN, RNN, GRU, and a fine tuned RoBERTa - using stratified cross validation, confusion matrices, and ROC curves to measure accuracy, precision, recall, F1, and ROC AUC.
  - Demonstrated that RoBERTa achieved top performance (accuracy 0.80, AUC 0.93) through systematic cross-validation and in-depth analysis.
- Information Technology Staff – Southeast State Missouri University Sept 23' – Jan 25'
  - Provided front-line technical support to 100+ students and faculty, resolving issues with software, printing, and system functionality at an on-campus IT help desk.
  - Diagnosed and troubleshooted Windows/macOS PCs, maintaining operational efficiency across 50+ public access computers.

## Projects:

- [ASA DataFest 2025](#) – Winner, Best Use of Statistical Analysis | R, RStudio: <[Link](#)> April 25'
  - 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.
- [Echo Chamber](#) | Python, Streamlit, NewsAPI, NLTK, Sklearn: <[Link](#)> June 24'
  - Tackled the challenge of combating news bias and information silos by building The Echo Chamber, a Python- and Streamlit-based platform integrating sentiment analysis (98% accuracy) and TF-IDF-based article recommendations; resulted in a 90% user satisfaction rate and over 200 active users within the first month.
  - The platform uses NewsAPI to fetch articles, NLTK for sentiment analysis, and a TF-IDF-based recommendation system in Python to provide users with accurate, personalized news suggestions.
- [SEMO Esports Website](#) | React, Node.js, MongoDB, Express, Tailwind, Git: <[Link](#)> <[Website](#)> June 24'
  - Developed and deployed a full stack booking system using AWS, React, Node.js, and MongoDB, enabling over 150+ students to reserve gaming stations in advance, reducing on-site congestion by over 70% during peak hours.
  - Integrated Firebase Authentication and role-based access controls, streamlining user access and empowering staff to manage reservations, usage stats, and maintenance through a dedicated admin panel.