

TOM TIGER

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EDUCATION

University of Memphis, Memphis, TN
Master of Science, Data Science

Expected Graduation: May 2026

- GPA: 3.8/4.0
- Relevant Coursework: Machine Learning, Data Mining, Advanced Statistics, Deep Learning, Big Data Analytics, Natural Language Processing, Cloud Computing

University of Memphis, Memphis, TN
Bachelor of Science, Computer Science

May 2024

- Honors: Magna Cum Laude | Minor: Computer Science

RELEVANT EXPERIENCE

St. Jude Children's Research Hospital-ALSAC, Memphis, TN
Data Science Intern

May – August 2025

- Built a predictive churn model using XGBoost that improved accuracy by 18% over the company's baseline model
- Cleaned and transformed a customer dataset (1M+ rows) using Python (pandas, NumPy) and SQL
- Created interactive dashboards in Tableau to visualize customer retention and lifetime value

University of Memphis- Department of Computer Science
Graduate Research Assistant

August 2024 – Present

- Conducted statistical analysis of social media data for misinformation detection using NLP techniques (TF-IDF, BERT)
- Deployed models using Streamlit and AWS Lambda for faculty research portal
- Co-authored a peer-reviewed paper submitted to the IEEE Big Data Conference 2025

PROJECTS

Movie Recommendation System (Collaborative Filtering)

Fall 2024

- Built a recommendation engine using matrix factorization and cosine similarity
- Trained on the MovieLens dataset; achieved 92% user satisfaction in project usability tests
- GitHub: github.com/ttiger/movielens-recommender

Credit Risk Classification Model

Spring 2025

- Applied logistic regression, decision trees, and random forest to classify loan default risk
- Optimized models using GridSearchCV; achieved 91% F1 score
- Documented findings in Jupyter Notebook with interactive visualizations (Seaborn, Plotly)

TECHNICAL SKILLS

- Languages: Python, R, SQL, Bash, Java (basic)
- Libraries/Frameworks: pandas, NumPy, scikit-learn, TensorFlow, PyTorch, matplotlib, seaborn, NLTK, spaCy
- Tools: Jupyter Notebook, Git, GitHub, VS Code, Docker, Tableau, Power BI, Airflow
- Databases/Cloud: PostgreSQL, MySQL, AWS (S3, EC2, Lambda), Google Cloud, Azure (basic)

CERTIFICATIONS

- Deep Learning Specialization – deeplearning.ai 2025
- IBM Data Science Professional Certificate – Coursera 2024
- AWS Cloud Practitioner – Amazon Web Services 2024

ADDITIONAL INFORMATION

- Member, Data Science Society – University of Memphis, Memphis, TN
- Presenter, "Ethical AI: Bias in Machine Learning," University Data Science Conference, 2025