

MACKENZIE LEES

Cambridge, MA

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EDUCATION

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, SLOAN SCHOOL OF MANAGEMENT

Cambridge, MA

Candidate for Master of Business Analytics, Operations Research Center, August 2024

2023 - Present

- Courses: Machine Learning, Optimization Methods, Advanced Analytics Edge, Deep Learning, Analytics to Action
- Analytics Edge Project: Predicted song popularity on Spotify by utilizing XGBoost, Logistic Regression, and Random Forest, integrated sentiment analysis and LDA for feature extraction (R, Python)
- Deep Learning Project: Fine-tuned LLMs, including GPT, LLaMa 2, and Gemma/LoRA, for recipe generation based on input ingredients, highlighting variations in recipe quality due to model selection and prompt engineering (Python)
- Machine Learning Project: Developed a Gradient Boosted Tree and Optimal Regression Tree model to predict flights delays and implemented policy trees for optimizing arrival times (Python, Julia)
- Leadership: Elected Class Treasurer: manage \$5,000 per semester class budget; collaborate with leadership council to plan/host events; Sloan Women in Management club

TULANE UNIVERSITY | SCHOOL OF SCIENCE AND ENGINEERING

New Orleans, LA

B.S. in Mathematics and B.S.M. in Management; GPA: 3.9/4.0

2019 - 2023

- Awards: Tulane Merit Award; Dean's List all 8 semesters
- Leadership: VP of Finance; Alpha Delta Pi Sorority: Controlled budget of \$80,000; Wave Leader: Mentored 30 students
- Tutored 5 students a semester in Calculus/ Linear Algebra for 5-8 hours a week, averaging an increase of a letter grade

TECHNICAL SKILLS

- Python, R, SQL, Julia, Tableau, Power BI, Optimization(Gurobi), LaTeX, Git, Databricks, Scrum, Agile Development

EXPERIENCE

MIT SLOAN | MANULIFE

Cambridge, MA

Data Science Intern; Capstone Project (7 months)

Spring 2024 - Present

- Developing a Multi-Touch Attribution Model to quantify and analyze marketing effectiveness (SQL, Python)

MIT SLOAN | AB INBEV

Cambridge, MA

Analytics Lab Team Member; optimize ranking framework for personalized recommendations

Fall 2023

- Constructed 2 unique Random Forest models leveraging behavioral data, involving data cleaning, integration, and enhancements of datasets with millions of rows (SQL, Python)
- Collaborated with 5+ member team through weekly strategy meetings and daily updates, significantly enhancing project efficiency and communication dynamics
- Engineered an advanced ranking algorithm with LightGBM that incorporated behavior data for e-commerce application, achieving an 8% point increase in overall precision and a 5% point increase in rank 1-3 precision for upsell category (Python)

EVEREST REINSURANCE COMPANY

Warren, NJ

Data Analytics Intern

Summer 2023

- Designed and developed an interactive dashboard using SQL, Python, and Power BI with teammates to analyze premium data for insurance and reinsurance teams; ensured data accuracy and identified areas for improvement
- Analyzed and improved investment metrics in Power BI and communicated findings of potential 5% improvement in investments returns; led to actionable insights and changes in portfolio management (Agile development)

Technology Intern

Summer 2022

- Automated reporting processes and analyzed trends for Infrastructure Services division, decreasing reporting time by 2 hours
- Spearheaded a cross-intern collaboration project, streamlined office attendance procedures, resulting in a 25% reduction in administrative workload and ensuring compliance with increased office requirements (Power BI, Agile development)

TULANE UNIVERSITY

New Orleans, LA

Teaching Assistant for Info 1010 (Excel Certification)

2021 - 2022

- Guided 300+ students through various excel assignments and software issues while reinforcing skills during set office hours, increasing average class grade by 15%

ADDITIONAL INFORMATION

- Languages: French (conversational)
- Interests: Animal Welfare, Traveling, Fashion, Philanthropy, Crochet, Sustainability, Reading