

GAYATHREE GOPI

gayathreegopi@utexas.edu | (469) 428-6399
linkedin.com/in/gayathreegopi | gayathreegopi.github.io/ | Austin, TX

EDUCATION

The University of Texas at Austin – McCombs School of Business Master of Science, Business Analytics – Financial Analytics Track GPA: 3.92/4.00 • Optimization I & II, Analytics for Unstructured Data, Advanced Corporate Finance and Investments, Advanced Machine Learning, Analytic Finance and Machine Learning, Principles of Empirical Finance, Unsupervised Learning	May 2025
The University of Texas at Austin – College of Natural Sciences Bachelor of Science, Biology – Computational Biology Major GPA: 3.90/4.00 • University Honors List (7 times)	May 2024 Fall 2020 – Spring 2024

TECHNICAL SKILLS

- Python: Data Analysis (pandas, NumPy, matplotlib), Natural Language Processing (spaCy, nltk, VADER, BERT), Machine Learning (PyTorch, scikit-learn, TensorFlow), Optimization (gurobipy, scipy), Financial Analysis (yfinance)
- R: Machine Learning (randomForest, BART), Statistical Testing (ANOVA, Chi-Square), Data Wrangling & Visualization
- Software: MS Excel & Financial Modeling, SQL, C++, Neo4j, Tableau, GitHub, Visual Studio Code, TACC Supercomputer
- Certifications: Google Data Analytics Professional, Google Business Intelligence Professional, Snowflake Data Warehouse

EXPERIENCE

Diligence.io – Business Analyst (Capstone Project); Austin, TX	November 2024 – Present
<ul style="list-style-type: none">• Collaborating with Diligence.io to develop real estate analytics solutions by integrating and analyzing structured and unstructured data from county sources to identify distressed properties and predict market dynamics• Utilizing Python, OCR, and data scraping to extract and clean mortgage and interest rate data for predictive modeling• Designing interactive dashboards in Tableau/Power BI to visualize land use and zoning data, providing actionable insights to inform investment decisions for Keating Resources and other real estate development companies	
K7 Capital Partners – Associate (Part-Time); Austin, TX	July 2023 – October 2024
<ul style="list-style-type: none">• Gained investment analysis, deal evaluation, and due diligence experience across multiple real estate asset classes• Assisted in evaluation of \$20 million small multifamily real estate investments in Austin-San Antonio mega-metro• Researched LinkedIn analytics and implemented improvements to grow presence from 8 to 615 followers in 6 months	

DATA SCIENCE PROJECTS

Predicting Bitcoin Returns Using Market and Sentiment Data	October 2024 – December 2024
<ul style="list-style-type: none">• Developed and implemented an LSTM-based recurrent neural network using Python to predict Bitcoin returns, leveraging historical data from yfinance and sentiment data from GDELT database to capture market trends and investor sentiment• Integrated feature engineering to incorporate volatility, momentum indicators, and lagged returns and analyzed impact of sentiment dynamics on price predictions to improve predictive performance• Designed and optimized regression and classification models to forecast price movements, applying hyperparameter tuning techniques to improve accuracy	
Market Analysis Automation for Cleveland Condos	October 2024
<ul style="list-style-type: none">• Leveraged Python, Selenium, and Pandas to automate web scraping, cleaning, and analysis of Cleveland condo listings from Zillow, focusing on key attributes like price, square footage, and location• Conducted geospatial analysis using Folium to create interactive maps visualizing price distributions across neighborhoods, enabling more intuitive location-based insights.• Delivered actionable insights to K7 Capital Partners, streamlining market analysis workflows and facilitating data-driven decisions for real estate deal sourcing	
Index Fund Construction and Portfolio Optimization for Tracking NASDAQ-100	October 2024
<ul style="list-style-type: none">• Leveraged Gurobi and Python to design integer and linear programming models that construct a NASDAQ-100 tracking portfolio that was capable of predicting 2024 NASDAQ-100 returns based on 2023 data• Minimized tracking error for improved alignment with performance index and efficient investment management	
Exploring Public Opinion Using Social Media Analytics for NASA and ISRO	October 2024
<ul style="list-style-type: none">• Employed Python, spaCy, scikit-learn, and BERT for advanced NLP techniques, performing topic modeling, sentiment, and image analysis to assess public sentiment on Reddit and Instagram• Delivered actionable insights on public engagement, enabling more targeted outreach strategies, enhancing brand positioning, and optimizing social media investment for NASA and ISRO	

ADDITIONAL INFORMATION

Languages: Fluent in Tamil, Limited Working Proficiency in German
Interests: Indian classical dance and music, fine art, graphic design, volleyball
Work Eligibility: Eligible to work in the United States with no restrictions