

# NOUMIK THADANI

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## TECHNICAL SKILLS

## Data Science Projects @ noumik.net

### Languages

- Python (pandas, NumPy, scikit-learn, matplotlib, seaborn)
- R (dplyr, ggplot2, tidyr, caret, randomForest, tidymodels)
- SQL (MySQL, Postgres)
- VBA • HTML • CSS • JavaScript • TypeScript • C# • PHP

### Tools, Methods, & Courses

- Git • Azure • AWS • SAS • QGIS • Tableau • Snowflake
- Time Series Forecasting • Regression Analysis • Classification
- Clustering • Natural Language Processing • Deep Learning
- Feature Engineering • Optimization • Machine Learning

## EDUCATION

Georgia Institute of Technology	Master of Science in Analytics	2025
The University of Texas at Austin	Bachelor of Business Administration, Management Information Systems Computer Science Minor McCombs BBA 2019 Study Abroad Program in Sydney, Australia	2020

## EXPERIENCE

Kalypso: A Rockwell Automation Business - <i>Data Science Consultant</i> ; New York, NY	January 2025 - Present
- <i>Senior Analyst</i> ; New York, NY	August 2023 - December 2024
- <i>Analyst</i> ; Austin, TX	September 2021 - July 2023

- Building a prescriptive ML model for a Big Three automaker to predict panel gaps and target a 30% cut in defect-related rework
- Developed and implemented an adaptive control system in Python for a tire manufacturer that reduced material waste by 15%
- Built a machine learning model in Python to predict factory equipment failures with 99% accuracy for a global dairy company
- Proposed and created a program in Python to optimize resource management and capital efficiency, reducing project costs by 25%
- Led a team to research, analyze, and present life sciences industry trends by scraping and tracking data from complex web sources using BeautifulSoup in Python and SQL (CTEs, window functions) to inform firm's targets for the next year
- Optimized Oracle WMS using production data, cutting scrap by ~20% for a multinational food company; led training for adoption

Integra FEC - <i>Forensic Data Analyst</i> ; Austin, TX	January 2021 - July 2021
• Produced detailed analyses in R that were used as significant evidence in the SEC's \$1.5 million lawsuit against a credit ratings firm	
• Analyzed complex data sources using Python, R, SQL, and APIs, to identify financial fraud in federal consumer protection cases	
• Interfaced with clients (SEC, DOJ, independent law firms) to gather requirements & provide evidence-based solutions on projects	

Austin FC - <i>Data Analytics Project Lead</i> ; Austin, TX	July 2020 - July 2021
• Built a data pipeline with a SQL database and custom web app to collect and visualize real-time player and match statistics	
• Led spatial analysis & predictive modeling to assess player performance & potential, delivering recruitment insights to club officials	

Fidelity National Information Services - <i>Software Development Intern</i> ; Austin, TX	August 2020 - December 2020
• Conducted QA testing on AI-driven conversational UI software, analyzing and validating test run results, creating reports and bugs	
• Generated a question answering system using TF-IDF and similarity matrices in Python to find relevant answers in large documents	

The University of Texas at Austin - <i>Teaching Assistant</i> ; Austin, TX	January 2020 - May 2020
• Evaluated and advised class of 50 students while assisting professor in upper division MIS 373—Human Dimensions of Cybersecurity	

Political Party Legislative Campaign Committee - <i>Data Analyst Intern</i> ; Washington, D.C.	May 2019 - August 2019
• Acquired, cleansed, processed, & analyzed data from 10,000 state races, building a robust infrastructure for data-driven campaigns	
• Developed Python & QGIS forecasting models (98% accuracy) to guide strategic funding for majority wins in VA & NJ legislatures	

## PROJECTS & RESEARCH

FindASpot ( <i>Computer Vision &amp; Geospatial Analytics</i> )	2026
• Building a computer vision system in Python and front-end app to detect real-time parking availability and analyze traffic patterns	

Property Tax Fighter ( <i>Data Visualization &amp; Machine Learning</i> )	2025
• Built a Flask app using ML to help homeowners protest property taxes with comparables, estimates, and interactive visualizations	

Bike-Share Optimization ( <i>Predictive Modeling &amp; Logistics</i> )	2024
• Developed models to optimize bike distribution, docking station placement, and rebalancing, improving bike-sharing efficiency through demand prediction and redistribution strategies	

## WORK ELIGIBILITY — US Citizen