

Megan Sin

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EDUCATION

Worcester Polytechnic Institute	Worcester, MA
<i>Master of Science in Data Science</i>	May 2024
<i>Bachelor of Science in Data Science (High Distinction, GPA: 4.0)</i>	May 2024

EXPERIENCE

Dell Technologies	Round Rock, TX & Hopkinton, MA
<i>Services Solutions Architect II</i>	Jul. 2024 – Present
<ul style="list-style-type: none">• Spearheaded presales for 50+ enterprise deals, coordinating stakeholders to secure \$3M+ in potential contract value• Expedited deal closure by 20% by translating customer constraints into definitive, high-accuracy SOWs• Refined pipeline data by auditing CRM entries, ensuring 100% executive visibility for quarterly forecasting	
JPMorgan Chase & Co.	Plano, TX
<i>Data Science Summer Analyst</i>	Jun. 2023 – Aug. 2023
<ul style="list-style-type: none">• Achieved 90% faster query speeds and 10x faster reporting by unifying 200+ metrics from 15 data sources• Streamlined Teradata-to-Snowflake migration by documenting 150+ legacy schemas in a centralized data dictionary, ensuring 100% metadata accuracy for downstream analytics teams• Conducted requirements gathering sessions with stakeholders to identify critical KPIs and design intuitive visualizations• Architected two Tableau dashboards with data cards and time-based trend analysis to visualize customer behavior patterns	
The Hanover Insurance Group	Worcester, MA
<i>HR and Community Relations Analyst Intern</i>	Jun. 2021 – Aug. 2022
<ul style="list-style-type: none">• Boosted job posting engagement by 25% by analyzing peak engagement times and outreach effectiveness using Power BI• Built Excel forecasting models to predict demographic changes, influencing DEI strategy with actionable insights• Modeled CEO matching strategies for corporate giving campaign in Excel, forecasting participation and overall success• Managed logistics and communications for two company events, cultivating high attendee satisfaction and engagement	

PROJECTS

Economic Forecasting and Gen AI for NLQ Python	Jan. 2024 – May 2024
<ul style="list-style-type: none">• Stabilized forecasting by 20% through Granger causality tests and target leakage detection via correlation matrices• Optimized LLM workflows by implementing few-shot prompting for query classification, accurately routing user requests to SQL or visualization engines	
SpotBot: Fake Yelp Review Detector Python, Amazon SageMaker, Amazon S3	Jul. 2023
<ul style="list-style-type: none">• Built a fake Yelp review detector with 87% accuracy using BERT on Amazon SageMaker• Balanced datasets by identifying a 15% fake review distribution via EDA and performing QA to ensure label accuracy• Engineered a PyTorch pipeline to tokenize and preprocess data, enabling the model to analyze complex contextual cues	
Formula 1 Sponsorship Relevance Ranking Tool Python, MongoDB Atlas	Feb. 2022
<ul style="list-style-type: none">• Developed a relevance ranking system to match F1 drivers with brand profiles based on interests and engagement metrics• Aggregated and processed Twitter data using Python, storing structured outputs in MongoDB Atlas for high-scale analysis• Analyzed 5,000+ tweets via sentiment and frequency metrics to deliver data-driven sponsorship recommendations	

CERTIFICATIONS

NVIDIA-Certified Associate: Generative AI LLMs NVIDIA	Apr. 2025
Data Engineering Optimization Dell Technologies	Aug. 2024
AWS Certified Cloud Practitioner Amazon Web Services	Sep. 2023

SKILLS

Languages: Python, SQL (PostgreSQL, MySQL), Java, R, LaTeX, JavaScript, HTML/CSS
Libraries: scikit-learn, pandas, matplotlib, ggplot, PyTorch, nltk, BeautifulSoup, D3.js
Tools: Tableau, Power BI, Excel, Teradata, MongoDB, Amazon SageMaker, Git, Bitbucket, Docker, Hadoop