Megan Sin

508-654-8316 | Boston, MA | megansin31@gmail.com | linkedin.com/in/megan-sin | github.com/megansin

Education

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

Experience

Dell Technologies — Hopkinton, MA
Services Solutions Architect II — Jul. 2024 – Present

- Led complex AI presales efforts, coordinating stakeholders to deliver high-quality responses for ambiguous requirements
- Expedited deal closure by analyzing customer needs and constraints to produce definitive SOWs under tight deadlines
- Improved pipeline accuracy and executive visibility by auditing and updating deal records, reconciling discrepancies, and presenting status and escalation updates in recurring pipeline reviews

JPMorgan Chase & Co. — Plano, TX
Data Science Summer Analyst — Jun. 2023 – Aug. 2023

- 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
HR and Community Relations Analyst Intern — Jun. 2021 – Aug. 2022

- 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

- 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

Computational & Data Science Tools for the Beecology Project | *JavaScript, Java* — Aug. 2023 – May 2024

- Designed multi-tier taxonomy filters for butterfly datasets, allowing 3,000+ active users to refine data selection from broad categories to specific attributes for targeted analysis
- Created six interactive data visualizations using D3.js to enable users to explore species, population, and behavior patterns

SpotBot: Fake Yelp Review Detector | *Python, Amazon SageMaker, Amazon S3* — Jul. 2023

- Programmed an automated fake Yelp review detection tool with 87% accuracy, leveraging BERT in Amazon SageMaker
- Curated Yelp review datasets for training/testing, performing QA to verify label accuracy and distribution balance
- Streamlined a data pipeline using PyTorch to preprocess and tokenize data, allowing the model to analyze contextual cues

Formula 1 Sponsorship Relevance Ranking Tool | *Python, MongoDB Atlas* — Feb. 2022

- 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

Skills

Certifications: NVIDIA-CA GenAI LLMs, Dell Data Engineering Optimize, AWS Certified Cloud Practitioner
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