MEGAN SIN

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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-focused presales and RFP efforts by structuring ambiguous requirements, tracking owners and deadlines, and coordinating cross-functional stakeholders to deliver high-quality responses on time
- Accelerated deal closure by analyzing customer needs and constraints, and producing clear SOW under tight timelines
- 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
- Reduced stakeholder inquiry response time by 10x by aggregating transactional data on customer spending, point redemption, and ad interactions using SQL
- Centralized 200+ customer behavior metrics from 15 data sources into a single unified table, reducing query time by 90%
- Accelerated Teradata-to-Snowflake migration by documenting 150+ legacy schemas in a centralized data dictionary, ensuring 100% metadata accuracy for downstream analytics teams
- Interviewed executives and analysts to identify five KPIs and preferred visualizations aligned with business needs
- Conceptualized two internal Tableau dashboards with intuitive data cards and time-based customer behavior charts

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
- Enhanced forecasting stability by 20% through Granger causality tests and target leakage detection via correlation matrices
- Streamlined chatbot interactions by implementing query classification via few-shot prompting, enabling accurate LLM responses by categorizing user requests as SQL queries or visualization requests

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
- Built a relevance ranking system to match current Formula 1 drivers with company sponsorship profiles based on brand interests and audience engagement
- Scraped and processed social media data from Twitter, storing structured data in MongoDB Atlas for analysis
- Conducted frequency and sentiment analysis on 5,000+ tweets to improve sponsorship targeting 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