DHARMI GALA

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Education

The University of Chicago   *Chicago, Illinois | December 2023*

Master of Science in Applied Data Science – 4/4 GPA

Top 10% of class; *Coursework*: Statistical Analysis, Data Science for Consulting, Data Engineering Platforms, Data Mining Principles, Linear and Non-Linear Models, Big Data Platforms, Machine Learning, Time Series Analysis, Data Visualization, Natural Language Processing, ML Operations, Bayesian Networks.

Narsee Monjee Institute of Management Studies   *Mumbai, India | May 2021*

Bachelor of Science in Applied Statistics & Analytics – 3.98/4 GPA

Dean's List (Top 5% of class); *Projects:* Visual Text Extraction using OCR, Time Series Analysis on ice cover extent over Greenland

Skills

Languages: Python, R, SQL, NoSQL (MongoDB, Neo4j), Git, HQL, C
Libraries: NumPy, Pandas, Seaborn, Scikit-learn, PyTorch, LangChain, Tensorflow
Technologies: AWS, Docker, Snowflake, Power BI, Tableau

Professional Experience

Jones Lang LaSalle| Business Analyst   *Chicago, Illinois | Jan'24 – Present*
- Initiated and led the deployment of automation initiatives, achieving a 50% improvement in data collection and cleaning efficiency using Databricks and Power BI, servicing multiple client projects.
- Conducted an in-depth data analysis on Excel for work orders across 3000+ facilities, which uncovered key patterns and insights, resulting in a 30% enhancement in operational efficiencies and the adoption of best practices for client facilities management.

NXP Semiconductors | Enterprise Data Analyst Intern   *Austin, Texas | Jun'23 – Dec'23*
- Enabled precise resource prediction by orchestrating a Compute Resource Forecasting system on Dataiku for 200+ users utilizing Azure ML Studio for each machine learning model execution, facilitating strategic, cost-effective decisions for the administrative team.
- Elevated report quality by 35% through the implementation of a Power BI Report Self-Vetting process for over 8700+ organizational reports, integrating detailed data collection and user profiling, while conserving valuable resources.
- Achieved 50% better compliance by spearheading an audit process utilizing Power BI logs through Power Automate and Office scripts; also introduced a Governance Matrix to enable informed, proactive actions.

Deloitte | Associate Analyst – Strategy & Analytics   *Mumbai, India | Jul'21 – Jul'22*
Data Science & Engineering
- Responsible for designing and implementing automated data ingestion & curation of ETL pipelines to enable visual analytics delivery for a leading pharmaceutical company, manufacturer of the COVID vaccine.
- Integrated a sales forecasting model using Amazon S3 for dataset management, Athena for efficient SQL querying, and SageMaker for accurate time-series analysis, culminating in actionable insights through Tableau dashboards for vaccine sales strategy.
- Boosted sales by 50% by enhancing 10+ Tableau dashboards with strategic enhancements, delivering a customized solution that empowered clients to track sales through 5+ KPIs and leadership to analyze individual and overall performance.
- Enhanced Tableau dashboards with row-level security, enabling granular data access control, which resulted in a 30% increase in data confidentiality compliance across various organizational levels.
- Led quality assurance with thorough unit tests, and resolved edge bug cases for pipeline/dashboard, resulting in improved functionality.

Client Engagement and Leadership
- Demonstrated expertise in the solution through successful training sessions to the client and delivered a demo to an audience of over 100, including Deloitte Leadership.
- Managed the creation of a detailed data dictionary, which facilitated improved data modeling and patient tracking analytics.

Project Work

Health Care QA Bot   *Mar'23 – Dec'23*
- Implemented and fine-tuned a Large Language Model on Hugging Face's platform, applying techniques like zero-shot learning, few-shot learning, chain-of-thought, and retrieval-augmented generation (RAG) per the MASHQA framework.
- Enhanced LLM performance using Mistral's instruction tuning with a healthcare dataset, efficiently demonstrating model improvements in detailed presentations.

Automatic Bayesian Network Construction from Natural Language Prompts   *Mar'23 – Dec'23*
- Developed a bespoke AI solution enabling individual traders to assess market risks by constructing Bayesian Networks and calculating real-time probabilities via APIs, thereby facilitating informed decision-making in financial trades.

Forecasting NYC Yellow Taxi Prices and Demand   *Jan'23 – Mar'23*
- Utilized clusters on GCP to analyze 29 GB of NYC Yellow Taxi trip data using Spark, to identify price sensitivity and demand forecasting trends. Conducted feature engineering and developed regression models to predict cab fares and demand based on location and time.

Certifications & Awards
- AWS Certified Machine Learning – Specialty.
- Recipient of two Applause awards from Deloitte for exemplary performance within the duration of eight months.