Giovanni Lunetta

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WORK EXPERIENCE

Johnson & Johnson (MedTech R&D), 06/2024 – Current | Raritan, NJ
Technology LDP Analyst on Data (Data & Decision Science)

- **Pre-Surgical Config Insights (Preference Modeling):** Led pre-surgical preference modeling using Fuzzy C-Means clustering and rule-based logic to streamline configuration planning; deployed insights via Tableau dashboards for clinical decision support.
- **Document Intelligence Platform (GenAI/RAG):** Owned and built a Document Intelligence GenAI platform using hybrid retrieval (pgvector + BM25), LLM agents for schema-based extraction, and markdown/image optimization—enabling faster, more reliable answers at lower cost.
- **HCP Segmentation & Treatment Pathway Analysis:** Developed HCP segmentation using K-Means clustering and treatment-pathway analysis to improve provider targeting and inform commercial strategy.
- **Microsoft 365 Copilot Program (Product Operations):** Automated Microsoft 365 Copilot license lifecycle with Python and Excel macros, enabling data-driven usage analytics and boosting program adoption.
- **AWS Cost Optimization (FinOps):** Standardized AWS cost attribution and created FinOps dashboards, partnering with owners to drive rightsizing and cost savings.

Johnson & Johnson (Janssen Pharmaceuticals), 05/2023 – 08/2023 | Titusville, NJ
Technology Summer Intern (Data Science)

- Built a machine learning model to predict patient drug eligibility 6 months ahead, improving doctor outreach targeting.
- Analyzed healthcare claims data and applied advanced data science techniques to optimize pharmaceutical processes.

EDUCATION

M.S. in Data Science, *University of Connecticut* 09/2023 – 05/2024 | Storrs, CT

B.A in Statistics & Political Science, Mathematics (Minor), 09/2020 – 05/2023 | Storrs, CT
University of Connecticut

PROJECTS

Babson Challenge - Tech Stack Simplification

- Developed OneSite a centralized HR platform, and OneAI an AI assistant, to streamline HR workflows at J&J. Led stakeholder research, prototyping, and ROI-backed implementation planning using design thinking.

Hack4Health - Surgical Intelligent Assistant (SURIA)

- Created SURIA, a voice-activated, offline-capable AI assistant to support surgical teams in the OR. Delivered real-time guidance and automation features. Placed top 3 in MedTech category.

Medium Articles - Data Science in Sports

- Beyond the Score: Sentiment analysis comparing soccer vs. football fan discourse
- Evaluating the Donovan Mitchell Trade (Parts 1 & 2): Data-driven analysis of trade impact using player stats and team performance

SKILLS

GenAI & Retrieval
- LLMs (LangChain, token optimization), Agentic AI Framework, Embeddings (pgvector), Retrieval-Augmented Generation (hybrid retrieval, BM25, tsvector)

Machine Learning
- Python, R, Supervised Learning (Random Forests, XGBoost, SVMs), Unsupervised Learning (K-Means, Fuzzy C-Means, GMMs), Neural Networks (CNNs, RNNs), PCA

Data Engineering & Databases
- Databricks (fundamentals), SQL (Postgres), schema design, query tuning

Analytics & BI
- Tableau, Power BI (semantic models, Q&A)

Cloud & Automation
- AWS, Microsoft Azure
- Python scripting, Excel macros, Microsoft PowerApps

Product & Leadership
- Agile delivery, product ownership, stakeholder engagement, mentorship

CERTIFICATES

- AWS Certified Cloud Practitioner

- Tableau Desktop Specialist

- Harvard/edX - Data Science Professional Certificate; CS50x 🔗

- DeepLearning.AI – ML Specialization, Prompt Engineering, LangChain, Diffusion Models

- Babson Exec Ed - J&J Design Thinking

- Dale Carnegie - Present with Impact

- Alta3 - LLM Basics

- Databricks Fundamentals Accreditation