Daniel Varivoda

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EDUCATION

University of California, Los Angeles **Aug 2016 - Jul 2020**
B.S., Cognitive Science w Computing; *Minor*, Statistics

Northeastern University **Sep 2022 - May 2024**
Master of Sciences, Computer Science

PROFESSIONAL EXPERIENCE

HydraCor LLC, Windham, NH
Lead Data Scientist **Jun 2022 - Present**

- Manage the Data Science team, overseeing project/research cycles, addressing issues, and reviewing completed work for 1-3 rotating interns and a Junior Data Scientist.
- Implemented and deployed a local LLM chat application utilizing BERT embeddings of patient comments to allow clients to efficiently and simply gain insight into their patient satisfaction.
- Primary client data liaison, led dozens of ad-hoc analyses, and quarterly research presentations.
- Modeled the impact of AdvoCor platform activity on site rating metrics, leading to an average 20% - 30% increase in HCAHPS survey scores in EVS and Nutrition for 200+ healthcare sites.
- Facilitate international expansion into the UK and France, along with over 100 new healthcare sites.
- Utilized various machine learning algorithms for tasks such as classifying likely areas of patient concern, clustering patient groups by risk, and comment sentiment analysis.

Data Scientist **Jul 2020 - Jun 2022**

- Developed and maintained R/Python-based applications, including a VBP-impact calculator, patient risk calculator, site health tracker, and RCA prioritization tool.
- Provided hospital market research, leading to the addition of 10+ direct sales sites.
- Revamped the backend analytics engine of our platform into one concise API structure.

Data Analytics Intern **Jun 2019 - Jul 2020**

- Analyze client data and write up detailed status reports with visualizations for stakeholders
- Extract, transform, and load client HCAHPS data into our database to prepare for analysis

RESEARCH EXPERIENCE

Machine Learning and Evolution Group (MLEG) **Jul 2021 – Sep 2022**
University of South Carolina
Assistant Researcher

- First author for "Materials Property Prediction with Uncertainty Quantification: A Benchmark Study", measured the effectiveness of four uncertainty quantification families (bootstrap aggregation, evidential/deterministic, inductive conformal, and delta method) for Graphical Neural Networks in the Materials Informatics research space, published in the Applied Physics Review.
- Assist in the research of novel GNN models like Deeper-GATGNN using residual skip connections
- Proofread and provide writing/process suggestions for lab papers.

UCLA Semel Institute, Los Angeles, CA **Sep 2018 - Jul 2019**
Research Assistant with the Kasari Lab

- Organize, transcribe, and analyze child-experimenter interaction video data in Excel.

SKILLS

R, Python, Java, SQL, Github, Docker, Spark, Milvus DB, Azure, AWS, Excel, Tableau, Statistical Probability, ETL, Product Management, Predictive Modeling, Machine Learning, GNNs, Transformers/LLMs, Pytorch, NLP, Research, Time Series Analysis, data pipeline development, Russian (Fluent), French (Intermediate)