NIL BESERLER

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EDUCATION:

University of California San Diego, GPA: 3.6   Graduated *in March 2024*
BS. in Cognitive Science with Machine Learning and Neural Computation Specialization
Relevant Coursework: Supervised ML Algorithms, Unsupervised ML Algorithms, Deep Learning, Advanced Machine Learning Methods, Data Science in Practice, Brain-computer Interfaces, Data Structures and Algorithms for Data Science, Statistical Analysis

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EXPERIENCES:

ICW Group   *November 2024- Present*
Associate Data Scientist, San Diego
- Built a multi-model NLP system with transformers and ensemble methods to automate industry classification, improving accuracy through consensus-based scoring and robust data normalization.
- Optimized underwriting risk scoring models by refining feature weighting and scoring methodologies, improving risk differentiation across multiple lines of business and contributing to lower loss ratios.
- Increased model interpretability and stakeholder confidence by building comparison frameworks across model versions, integrating evaluation metrics, statistical analysis, and visual reporting.

Oracle   *June 2024- October 2024*
Data Science Intern, Los Angeles
- Created interactive analytics **dashboards** by collaborating with Delete The Divide (DTD) Interns to quantify and share data on community impact, resulting in visually compelling and **data-driven stories** for stakeholders.
- Communicated with DTD Executives to understand key performance indicators and effectively leveraged **data insights** to the organization's mission, ensuring meaningful and actionable visual narratives that influenced decision-making.
- **Utilized SQL and Excel-like functions** to support data ingestion, modeling, preparation, and enrichment; applied **Oracle Analytics Cloud** for machine learning models, leading to improved data-driven insights through Binary-Classifier, Clustering, Multi-Classifier, and Numeric Prediction models.

Accenture   *August 2023- April 2024*
Break Through Tech Artificial Intelligence Fellow, Los Angeles
- Developed a predictive model that assesses the vulnerability of cellular towers to natural disasters across the United States. Utilized **unsupervised learning and deep learning** techniques, including **k-means clustering and DBSCAN** models, on historical datasets containing disaster records and cellular tower locations.
- Optimized **data processing** workflows and **data pipelines** for efficient analysis and quicker insights by implementing parallel processing and, automating ETL (Extract, Transform, Load) tasks, leading to a 20% reduction in processing time.
- Enhanced understanding of **business implications of machine learning models**, effectively communicated complex technical details to stakeholders in a digestible manner, highlighting strategic value.

Breakout Mentors   *September 2023- June 2024*
Machine Learning Tutor, Remote
- Guided and inspired students in data science and ML, covered topics such as **supervised learning, deep learning, and reinforcement learning** to foster a passion for learning and practical application.
- Designed and implemented a hands-on curriculum emphasizing real-world problem-solving with modern data science tools like **Pandas, NumPy, and Matplotlib**, as well as deep learning frameworks such as **PyTorch and TensorFlow.**
- Collaborated with a student to build a financial literacy chatbot using Flowise and **LangChain**, embedding text data with OpenAI embeddings and storing them in Pinecone for effective **similarity searches**, enhancing **query response accuracy** and user experience.

Cognitive Tools Lab & Early Learning and Cognition Lab at UCSD   *December 2021- December 2022*
Research Assistant, San Diego
- Spearheaded advanced image recognizability research, quantified by successfully comparing **CLIP, VGG19,** and human metrics through complex **dataset wrangling and data visualization; using R and Python**. Presented key findings to an audience of **20**+ grad students, leading to a **25%** improvement in comprehension of **image recognizability metrics** measured by poll ratings.
- Conducted thorough literature reviews on computer vision models, fostering innovation, and leading feedback-driven meetings to drive progress in **cross-functional** teams.

RECENT PROJECTS
- Telecommunications disaster inquiry with Accenture
- Part of speech tagging using structural models(Structural SVM, Hidden Markov Model, and Conditional Random Fields

TECHNICAL SKILLS: Python, Java, R,, React, SQL, Pandas, Numpy, Matplotlib, Seaborn, Sci-kit-learn, Tensorflow, Keras, PyTorch

CERTIFICATIONS: Cornell University; Machine Learning Foundations, Oracle Cloud Infrastructure 2024 Certified Foundations Associate, Oracle Cloud Infrastructure 2024 AI Foundations Associate