Shaw Talebi

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Education

The University of Texas at Dallas
- PhD, Physics - *May 2022*
- M.S., Physics - *December 2019*
- B.S., Physics - *May 2017*

Technical Skills

- **Programming Languages**: Python, SQL, Julia
- **Tools**: AWS (SageMaker), Snowflake, GitHub, Tableau
- **Certifications**: AWS Cloud Practitioner Essentials (AWS), Data Structure & Algorithms (Udemy), Tableau (Udemy)

Work Experience

Technical Writer & Data Science Consultant

Shawhin Talebi Ventures LLC | Plano, Texas *(December 2020 - Present)*
- Developed comprehensive technical documentation for data science projects, including integration guides and API references, ensuring clarity for technical users.
- Implemented data pipelines leveraging Python and SQL, driving insights and enhancing data quality for decision-making processes.

Data Scientist

Toyota Financial Services | Plano, Texas *(June 2022 - July 2023)*
- Enhanced the credit risk model's accuracy for over 70% of accounts, writing model monitoring scripts to prevent future failures.
- Redeveloped loan originations model, achieving a 50% performance improvement and realizing $2.5 million in value for stakeholders.

Research Assistant

The University of Texas at Dallas (Department of Physics) | Richardson, Texas *(December 2018 - May 2022)*
- Authored open-source methodology documentation to improve EEG band discovery, facilitating enhanced data analysis and research reproducibility.
- Trained and validated machine learning models to estimate particulate matter concentrations, achieving a high fidelity ($r^2 = 0.91$) and documenting methodologies for future reference.

Awards and Honors

- **2021 Friends of BrainHealth Visionary New Scientist Award** — Finalist *(September 2021)*
- **2nd Annual Weeks of Welcome Poster Competition** — 3rd Place Winner *(August 2019)*

Publications

1. Talebi S., Lary D.J., Wijeratne L. OH., and Lary, T. *Modeling Autonomic Pupillary Responses from External Stimuli Using Machine Learning* (2019).
2. Talebi, S. et al. *Data-Driven EEG Band Discovery with Decision Trees*. Sensors 2022, 22(8), 3048.

References and additional information available upon request.
