Ethan Parks

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WORK ARTIFACTS

Github: https://github.com/edjpman
LinkedIn: www.linkedin.com/in/ethan-parks-3a92b0183
Personal Site: https://edjpman.github.io/ *Note: Proprietary work overviews may become available on personal site*

AREAS OF FOCUS

- **Skills:** Applied Deep Learning, Transformers for Time Series/Sequential Analysis, Representation Learning, Financial Markets/Education/Medicine and Healthcare, Analytics as Business Products
- **Tech:** Python, SQL, PyTorch, Keras, Scikit-learn, TensorFlow, Transformers, XGBoost, Relational Databases, AWS, PostgreSQL, Redshift, Hugging Face, Google Colab

PROFESSIONAL EXPERIENCE

Tradespot24   **January 2025 – Present [1 Year]**
Founding Machine Learning Scientist   *Scottsdale, AZ*

Present Focus: Driving business growth through advanced and scalable machine learning and analytics solutions.

Market Intelligence Engine: Engineered custom transformer-based architectures for financial sequence modeling and market sentiment analysis.
ML Ops & Data Architecture: Developed scalable and robust data and machine learning pipelines to support customer facing products and internal business processes.

Arizona State University - EdPlus   **November 2022 – Present [3 Years]**
Data/Research Analyst   *Scottsdale, AZ*

Present Focus: Bridging the gap between business initiatives and formal research through data science and engineering principles.

Dreamscape Learn: Architected the end-to-end research data infrastructure for quantitative evaluation of virtual reality products, directly informing executive strategy and substantial financial decisions.
Learning@Scale: Co-developed one of the world's largest open-source educational data platforms. Co-authored academic papers [*currently under review*] on fine-tuning LLM's for PII removal in textual data.
SafeInsights: Built the backend data infrastructure for an NSF-funded platform, enabling LLM's to securely assist researchers in constructing quantitative studies on large scale datasets.

Rounds Consulting Group, Inc.   **September 2019 – October 2022 [3 Years]**
Senior Economic Analyst   *Tempe, AZ*

Focus: Orchestrated data analytics operations supporting legislative white papers, media briefings, and private sector market insights, driving significant investments and economic activity within the local and regional economy.

EDUCATION

University of Arizona   **January 2024 – May 2026 [Expected Graduation Date]**
M.S. Data Science - 3.9/4.0 GPA   *Tucson, AZ*
   - Courses Included: Neural Networks, Advanced Statistical NLP, Advanced Statistical Regression Analysis, SQL/NoSQL Databases for Data Science, Data Mining, Data Ethics, etc.

University of Arizona   **March 2025 – December 2025**
Graduate Certificate. Natural Language Processing   *Tucson, AZ*

Arizona State University   **August 2016 – May 2020**
B.S. Economics - Cum Laude 3.59/4.0 GPA   *Tempe, AZ*
   - Courses Included: Applied Regression Analysis, Labor Economics, Business Statistics, Intermediate Macro/Microeconomic Theory, Calculus for Life Sciences, etc.

COMMUNITY INVOLVEMENT

Homeowners Association Board Treasurer   **Scottsdale, AZ 2024 – Present**

Eagle Scout - Boy Scouts of America   **Milwaukee, WI 2008 – 2016**