Youval Kashuv

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Education

University of Florida — Gainesville, FL
B.S. Computer Science, B.S. Mathematics — Expected May 2026

- GPA: 3.93/4.0, NSF REU Fellow, National Merit Scholar, Benacquisto Scholar
- Relevant Coursework: Machine Learning, Computer Vision, Operating Systems, Algorithm Abstraction, Computer Organization (ARM Assembly), Intro to SWE, Data Structures & Algorithms, Probability Theory, Stats Theory
- Skills: C++, Python, Java, Julia, HTML, MySQL, Linux, PyTorch, TensorFlow, scikit-learn, NumPy, pandas

Experience

Cuffed — July 2024 – Sep. 2024
Machine Learning Engineer Intern — New York, New York

- Trained and evaluated several **multimodal deep learning models** to predict if a user is likely to swipe left/right on another user for improved deck creation using Python, NumPy, pandas, and PyTorch.
- **Increased prediction accuracy by 64% and precision by 167%**, when compared to naive approaches.
- Built off of Gale-Shapley algorithm for optimal matching and deployed the model for deck generation using Python, TensorFlow, and AWS SageMaker.

University of Florida — May 2024 – Aug. 2024
AI Research Intern (NSF REU) — Gainesville, FL/Remote

- Preprocessed **100 GB of tweets** using pandas and extracted new insights into norm dynamics leading to paper.
- Developed a **novel graph-based model** (TGNN) using NumPy and PyTorch to predict when users will adopt certain social norms, **successfully identifying susceptible users with an AUC of 0.95**.
- Solely responsible for all aspects of the project, including problem formulation, methodology design, data pre-processing, implementation, model training, and performance evaluation.

Intrinio — May 2023 – Aug. 2023
Machine Learning Engineer Intern — Remote

- Designed, developed, and tested an ML (RNN/LSTM) model for predicting key financial metrics (e.g. EBITDA), **achieving 70% accuracy on real market data**; used technologies such as pandas, NumPy, and PyTorch.
- Used pandas and BeautifulSoup to build an end-to-end data pipeline that automatically parses 8-K SEC filings and standardizes/extracts information which **provided new data from over 1,000 publicly traded companies**.

Projects

Federated Fraud Detection — python, PyTorch, NumPy, scikit-learn, pandas, matplotlib

- Implemented and trained a dynamic graph neural network (DGNN) in a **horizontal federated learning** (HFL) setting for anomalous and **privacy preserving fraud detection** of credit card transactions, **successfully achieved >96% accuracy** on datasets with upwards of 20 clients.
- Securely aggregated model weights from multiple banks without sharing customer data, reducing the risk of data breaches while maintaining model performance.
- Leveraged **multi-GPU training** for each participating bank and implemented efficient model aggregation, achieving a 20x speedup in overall training time and enabling near real-time fraud detection capabilities.

ASL Letter Classification — python, TensorFlow, NumPy, scikit-learn

- Leveraged **transfer learning** by fine-tuning a pre-trained **ResNet50** model to classify American Sign Language letters in noisy environments and with various rotations, **achieving 99% accuracy**.
- Incorporating Global Average Pooling, L2 regularization, Batch Normalization, and Dropout, to enhance model generalization and prevent overfitting.

Leadership

UF Quant Club — President (May 2024 - Present) — Gainesville, FL

- Conducted workshops and seminars on quantitative finance topics, including portfolio optimization, derivatives pricing, and econometric analysis, enriching the academic experience of 50+ club members.

UF G[AI]TOR Club — Education Director (Aug. 2023 - Present) — Gainesville, FL

- Taught weekly lectures dedicated to enriching members' understanding of advanced topics ranging from simple deep neural networks (DNNs) to large language models (LLMs) and graph representation learning.