Parker Glenn

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Education

Brandeis University — Waltham, MA
M.S. in Computational Linguistics — *May 2022 Graduation*

University of California, Santa Barbara — Goleta, CA
B.A. in Linguistics, Concentration in Speech and Language Technology — *Sept. 2018 – June 2020*

Technical Skills

Languages: Python, Java, SQL, Bash
Developer Tools: PyTorch, Docker, Git, Amazon Web Services (AWS), Google Cloud Platform (GCP), SageMaker, HuggingFace, FastAPI, Flask, NLTK, Mechanical Turk, Pandas, Dask, spaCy, Elasticsearch

Experience

Data Scientist — June 2022 – Present
Fidelity Investments — *Boston, MA*
- Currently working in NLP at the Fidelity AI Center of Excellence.

NLP Intern — May 2021 – June 2022
Workhuman — *Framingham, MA*
- Lead Workhuman's first peer-reviewed publication, The Viability of Best-worst Scaling in Detecting Implicit Bias
- Created system for information extraction and temporally-dependent topic modeling with **Gensim** and **Pandas**, winning an internal Customer Strategy innovation competition
- Developed Python package to calculate and visualize inter-annotator agreement from AWS Ground Truth data, with **Numpy** and **Seaborn**

Graduate Research Assistant — August 2020 – October 2021
Brandeis University — *Waltham, MA*
- Researched affordance extraction and multi-modal NLU under Prof. James Pustejovsky
- Co-authored paper on Competence-based Multimodal Question Answering
- Designed and deployed **Mechanical Turk** annotation task for pairing actions to images

Junior Software Engineer — October 2019 – August 2020
Briq — *Santa Barbara, CA*
- Previous roles: Data Science Intern, Data Science Associate
- Created and managed **Python** microservices deployed in **Kubernetes** with **Docker**
- Built pipeline for annotating large quantities of documents with **Google AutoML** predictions
- Developed semantic search built on **ElasticSearch**

Data Science Club Leader — September 2019 – June 2020
Data Science Club, UC Santa Barbara — *Santa Barbara, CA*
- Mentored a group of approximately 100-150 students as they completed projects applying various techniques in Data Science
- Designed a **Jupyter Notebook** curriculum to introduce beginners to concepts in Git and data visualization

Relevant Projects

Discourse Referent Prediction | *Python, FastAPI, PyTorch, Docker* — September 2021 - December 2021
- Trained a neural language model with augmented entity representations to predict future referents
- Created model training and evaluation pipeline in **PyTorch**
- Deployed interactive demo to Heroku with **Docker**

SHAP Dimensionality Reduction | *Python, SHAP, SentEval, Numpy* — September 2020 - December 2020
- Conducted research on dimensionality reduction of word embeddings and analyzed performance on downstream tasks
- Used the explainability tool **SHAP** to analyze marginal contributions of embedding dimensions within different machine learning models
- Created a set of tools to visualize linguistic trends learned by the models

Relevant Coursework

Data Structures and Algorithms
Advanced Computational Linguistics
Statistical Methods for NLP
Advanced Programming in Java
Neural Networks and Deep Learning
Morphology
Phonology
Semantics
Syntax