SAMANTHA TURESKI

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Personal Website
Linkedin | Github

Skills

Software Development Python, PostgreSQL, Kubernetes, Java, Node.js, GCP, BigQuery, AWS, Docker, REST APIs, Swagger, Gitlab CI/CD, ArgoCD, Datadog, OOP, Linux, Computer vision, Image processing, OCR

Python libraries Natural language processing (word embeddings, OpenAI, LLMs, BERT, spaCy, nltk), Flask, FastAPI, pandas, scikit-learn, Keras, PyTorch, Tensorflow, Django, streamlit, matplotlib, seaborn

Work History

AI Engineer - Posh Technologies Inc., USA, Remote   05/2022 - 09/2023
- Worked on production-level systems to return AI-based responses through banking chatbots at scale using Python, FastAPI, Redis, Kubernetes, BigQuery
- Engineered multiple in-house ML tools to improve chatbot quality with Django, Javascript, streamlit, in both voice and text domains
- Fine-tuned and tested business-crucial conversational artificial intelligence models in PyTorch, while also maintaining and reviewing fintech domain-specific training corpora

Research Assistant - Psychology Dept., Tübingen, DE   01/2021 - 09/2021
- Developed an online interface to visualize semantic distances between word embeddings and images with Python, Flask, and JavaScript, corpus annotation tool with Node.js
- Built a Node.js-based corpus annotation interface for novel ML video dataset

Artificial Intelligence Intern - IBM, Stuttgart, DE   09/2020 - 12/2020
- Implemented a command prediction tool and corresponding REST API for mainframe computers with Python, Flask, Node.js, and Docker

Machine Learning Research Assistant - Uni Tübingen, DE   12/2019 - 07/2020
- Assisted in setup of virtual self-driving car experiments under the supervision of Dr. Zeynep Akata using Python, CARLA simulator, computer vision

NLP Intern - Aurora: AI-Assisted Assessments, Remote   08/2019 - 09/2019
- Developed machine learning approaches to automatically create assessments from K-12 educational texts at Singapore-based edtech start-up; used Python, Flask, AWS

Research Assistant - Quant. Linguistics Dept., Tübingen, DE   12/2017 - 08/2018
- Developed a deep learning system for automatic phone/segment recognition in German using Python, Keras, Tensorflow, R, computer vision; annotated corpus in Praat

Software Developer Intern - FeedBook Project, Tübingen, DE   08/2017 - 10/2017
- Built an out of vocabulary (OOV) and spelling suggestion tool in online workbook for English learners using Java, GWT, UIMA, DKPro

Education

M.Sc. Machine Learning – Eberhard Karls University of Tübingen   2019 - 2021
B.A. Computer Science and Linguistics – Eberhard Karls University of Tübingen   2016 - 2019
B.A. Computer Science and Linguistics (129 ECTS) – Trinity College Dublin   2014 - 2016

Research and Publications

ViSpa (Vision Spaces): A computer-vision-based representation system for individual images and concept prototypes, with large-scale evaluation

CyberWallE at SemEval-2020 Task 11: An Analysis of Feature Engineering for Ensemble Models for Propaganda Detection

Workshop: **"Automatic segmentation and annotation of strongly reduced words"**