Parsa Mazaheri

📍 Mountain View   📞 +1 (650) 390-5422   ✉ p.mazaheri98@gmail.com   🔗 **parsa-mazaheri**

I'm an NLP Graduate student at UC Santa Cruz. I have 2.5 years of experience as a Software Engineer and 1 year of research experience in Machine Learning. I am passionate about Deep learning and Software Engineering.

SKILLS

Programming Langs: Python, Java, C++, goLang
AI: Pytorch, OpenCV, NLTK, Numpy, Pandas, Spacy, NLTK, MatplotLib, Transformers, encoder-decoder, BERT, Object detection, GPT3, Machine Translation, YOLO,
Software: Lambda, S3, DynamoDB, Redshift, RDS, Django, FastAPI, echo-go, Django-Resk-Framework, RestAPI, React
Tools: PostgreSQL, MySQL, MongoDB, Redis, Kafka, Git, Docker, Jira, Kubernetes, Grafana, Sentry, ci/cd

EDUCATION

MS Natural Language Processing, UC, Santa Cruz   2022 - 2023

Bachelors Computer Science, K.N. Toosi University   2017 - 2021
   B.S. Thesis: Compact Pedestrian Detection using YOLO

PROFESSIONAL EXPERIENCES

Sr. Software Engineer - Divar LLC (Karnameh)   Jul 2022 - Sep 2022
- Migrating the code to cloud and recalibrating the content engine for showing better adds-on post along with search result in Divar's Car division (Karnameh). Worked in both ML and Software part of the code.

Sr. Software Engineer - Tapsell Inc.   Jun 2021 - Jul 2022
In charge of the Tapsell Reportage platform, leading a team of 8 people.
- Worked with Django and Django-Rest-Framework for backend
- Using Transformer model for understanding ad content for showing relevant ad => improved click rate by 27%
- Used classification for better directing relevant ads to the best users.
- Also worked on CMP project where I worked on the ad studio and effectively serve the data. (golang)

Software Engineer - Asre Danesh Inc   Jul 2019 - Jan 2021
I worked in 3 different departments, including R&D, software, and ML.
- ML: Designed the Credit Card scanner (OCR) – worked with attention and transformers for Persian Alphabets (OpenCV) and model optimization.
- Backend with Django: Backend design with Django and Django Rest Framework for the crypto program.
- Software: User panel functions for the crypto program where I worked with Pandas and Numpy

RESEARCH EXPERIENCES

Semantic Parsing - GMU, Virginia   Jul 2021 - Dec 2021
Worked with professor Ziyu Yao on a paper on semantic parsing. In this research project, we used a scoring metric – confidence score – to find the uncertain parts in the agent's generated query on cross-domain databases and detect the correctness of the output. => improved agents confidence on answers by 10%.

OCR Persian letters - ADA   Jul 2021 - Dec 2021
I worked with the model, optimization, and image enhancement, where we used attention as a decoder for OCR for detecting Persian chars which improved accuracy by 15%. Reduced instant OCR error rate by 10%.

PROJECTS

PatentLaw - Nala LLC   Jan 2023 - Now
Fine-tuned GPT3 + some other tools for creating a legal patent toolkit.
- Creating the claims and patent material, getting insights, references, and suggestions when writing a patent.
- Writing in a certain style for each client, given their specifications.
- Exporting everything to a word document and flowcharts to an editable Visio document for the final touch.
- Reducing the time need for patent registering **from couple of days to couple of hours**.