

Amin Taheri

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Experience

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- MITACS Research Intern**, Verafin (Nasdaq) – St. John's, Canada Oct 2023 – Feb 2024
- Enhanced financial fraud detection by 36.2% using Tiny LLAMA over One Hot by investigating 6 categorical encodings
 - Implemented LightGBM and evaluated performance with 10-fold Stratified Cross Validation
- Computer Vision Intern**, Shenasa-ai Company – Tehran, Iran Oct 2019 – Jan 2020
- Engineered Face Extraction in Video with Retina Face and OpenCV, which led to 6x video generation
 - Rebuilt Face Quality Assessment using Test Driven Development, leading to 2.2x faster debugging
- Natural Language Processing Engineer**, Rahhat.ir Startup – Tehran, Iran Dec 2017 – Jun 2019
- Developed data pipelines for scraping data from Twitter at 180 RPM and executed sentiment analysis in Persian
 - Utilized LSTM-based model for sentiment analysis with 95.03% accuracy on Digikala Comments dataset

Education

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- Memorial University of Newfoundland (MUN)** [🌐](#), MSc in Computer Science Sept 2021 – Apr 2024
- **GPA:** 93/100 **Thesis:** Bacteria-agnostic Comprehensive Terminator Finder using a CNN Ensemble [🌐](#)

Publications

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- A Comprehensive and General Bacterial Terminator Finder using a CNN Ensemble** July 2024
S. M. Amin Taheri Ghahfarokhi, Dr. Lourdes Peña-Castillo 10.1101/2024.07.05.602086

Selected Projects [🌐](#)

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- [📁](#) **Named Entity Recognition for Persian Text** (Python, NLTK, TensorFlow) May 2021
- Built and trained 6 models to recognize named entities in Persian text
 - Analyzed the performance of the models, resulting in 96.27% accuracy on ARMAN-NER dataset
- [📁](#) **IMDB Sentiment Classification with GPT2** (Python, TensorFlow, GPT2) Dec 2020
- Fine-tuned GPT2 with roughly 500 sentences and created sentence embeddings by averaging word embeddings
 - Model outperformed a logistic regression baseline in sentiment classification by 5.37%
- [📁](#) **Personal Website** (Bootstrap, JQuery, GitHub Pages) Sept 2020
- Developed a responsive web gallery interface with 7 categories filtering utilizing Bootstrap for layout management
 - Enhanced user interaction by improving navigation, which reduced bounce rate by 15%

Additional Experience

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- President, Computer Science Graduate Society of MUN** Dec 2022 - Feb 2024
Graduate Students Representative, MUN Dept. of Computer Science Sep 2022 - Sep 2023

Awards

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- Fellow of the School of Graduate Studies, Memorial University of Newfoundland** Oct 2023
Outstanding Teaching Assistant Award, MUN Dept. of Computer Science Apr 2023

Selected Certificates [🌐](#)

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- Deep Learning Specialization:** Coursera [🌐](#) (Computer Vision, NLP, and Speech Recognition) Aug 2020
Machine Learning Tutorial: Coursera [🌐](#) Introduction on Machine Learning by Stanford. Nov 2019

Skills

Programming Languages	Proficient in Python, Java, C++, JavaScript, and Bash.
Backend Development	Developed REST APIs and Web Services with Django, Flask, and FastAPI.
Web Technologies	Built websites with HTML, CSS, JavaScript, React, and Angular.
Databases	Managed SQL, MySQL, MongoDB, SQLite databases.
Cloud and DevOps	Utilized AWS, Docker, Git.
AI and Machine Learning	Trained models using TensorFlow, PyTorch, Scikit-learn, and Transformers.