Enrique David Guzmán Ramírez

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Professional Interests

My interests are centered around Deep Learning, Natural Language Processing and lately Trustworthy ML and Speech Processing. I have experience working as a Data Scientist and DL researcher where I gained hands-on experience with ML projects for various use cases.

Education

MSc in Applied Computing *3.93/4 GPA*

University of Toronto, Department of Computer Science *Sep 2022 – Dec 2023 (expected)*

BSc in Data Science *9.60/10 GPA*

National Autonomous University of Mexico, Research Institute in Applied Mathematics and Systems *August 2019 - June 2021*

BSc in Physics *9.54/10 GPA*

National Autonomous University of Mexico, Faculty of Science *August 2015 - June 2020*

Work Experience

National Research Council Canada *Toronto, Canada*

Research intern *May 2023 - Present*

- Collaborated in the *Speech Generation for Indigenous Language Education* project to develop state-of-the-art speech synthesis systems and techniques with DL for Indigenous languages in Canada.
- Contributed to the development of *EveryVoice TTS Toolkit*, a tool for creating text-to-speech systems focused on low-resource languages, providing a smooth developer experience.

Grupo Salinas *Mexico City*

Data Scientist *November 2021 - July 2022*

- Developed a collaborative filtering recommender system for the homepage of the E-commerce area with PyTorch, which increased precision at 10 by 50%.
- Developed a content-based recommender system and association rules for the product detail pages of the E-commerce area with scikit-learn and Mlxtend, automating the original 2 week manual process.
- Deployed and monitored ML models as APIs for various use cases with AWS SageMaker.

Certifications

2022   **AWS Certified Machine Learning - Specialty (MLS-C01 🔗)**

Technical skills

Programming Languages	Python, Julia, R, Fortran, SQL.
Machine and Deep Learning	Scikit-learn, XGBoost, PyTorch, Keras, TensorFlow, PySpark MLlib.
NLP	NLTK, spaCy, Hugging Face.
Cloud services	AWS.
Databases	PostgreSQL, Redshift, MongoDB, Redis.
Miscellaneous	Linux, Git, LaTeX, Scrum.

Awards

2022   **Vector Scholarship in Artificial Intelligence Recipient 2022-2023.**

2019   **Support Program for Research and Technological Innovation Projects (PAPIIT, Mexico).**