NORA HERNÁNDEZ

COMPUTER SCIENCE | EDUCATION

ABOUT ME

I am a computer scientist with experience in data analysis and recommender systems, looking for projects to transform information into value for the community we live in.
I am a lifelong learner with a maker spirit. I love spending hours working on exciting new projects involving technology, science and movies.

CORE STRENGTHS

- Self-taught and fast learning
- Probabilistic reasoning and inference
- Probabilistic graphical models
- Machine learning
- Recommender systems
- Designing, running and analyzing experiments
- Statistical methods
- Data analysis
- Data visualization
- Native Spanish, fluent English and basic German and Esperanto

CONTACT DETAILS

Nora Patricia Hernández López
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Email: nora@noraphl.me
Website: https://noraphl.me
Location: Mexico

WORK EXPERIENCE

MAKER PROJECT DEVELOPER

Aerobot Planet, 2020-today

- Design challenging STEAM projects that foster creativity and innovation for kids ages 9 to 17
- Special focus on electronics, mechanics, and computer science

QUALITY SPECIALIST

Ternium Largos Puebla, 2015-2016

- Revised and completed requirements for ISO/TS:16949 certification
- Monitored complaints solutions and customer service satisfaction
- Implemented a data analysis engine to deliver relevant product quality insights

ACADEMIC HISTORY

TECNOLOGICO DE MONTERREY

Master of Science in Computer Science, 2020

- Awarded with the Academic Excellence Scholarship from Tecnologico de Monterrey and National Graduate Studies Scholarship from CONACyT
- Specialised and conducted a research thesis in Probabilistic Graphical Models and Recommendation Systems
- GPA 97/100

Bachelor's degree in Mechatronics Engineering, 2016

- Awarded with the Academic Scholarship from Tecnologico de Monterrey
- 2014 Student Society (SAIMT) member
- GPA 92/100

UNIVERSIDAD DEL VALLE DE MEXICO

Master of Education, 2020

- With orientation in educational technologies and innovation
- GPA 9.5/10

TECHNICAL SKILLS

R (dplyr, ggplot2, bnlearn, caret, mlr, rmarkdown, shiny, and more), Python (numpy, scikit-learn, matplotlib, pandas, keras), Weka, Matlab, Git, LaTeX, Advanced MS Office, Autodesk Inventor, Adobe CC (Premiere, InDesign, Illustrator).

ACADEMIC WORK

COURSES AND CERTIFICATIONS

Knowledge of the System ISO/TS:16949, Core Tools, Business Plan Seminar, Recommender Systems Specialization, Probabilistic Graphical Models Specialization, Statistical Inference, Corpus Linguistics

CONGRESSES

INCMty 2016, CIDTEC 2020, STEM 2020 OnDemand

PUBLICATIONS

Book Chapter

Estrada-Real, A. y Hernández-López, N., (2019). Razonamiento estadístico. In: Conocimiento y Razonamiento Computacional, 1st ed. [online] México: Francisco Cantú y Rocío Aldeco (Ed), pp.63-102. Available at: http://amexcomp.mx/files/Libro-CyR.pdf

Master Thesis

Hernández-Lopez, N. P. (2020). Hybrid Recommender System for a Context Aware Recommendation in the Film Domain (Master Thesis). Tecnologico de Monterrey.

Journal Article

Hernández-López, N. y Ramírez-Uresti, J. (2020). A Context Hybrid Bayesian Model for Recommendations. Preprint submitted to Personal and Ubiquitous Computing. [Under review]