Juan Manuel Sánchez Pérez

Phone number:
+52 1 33 2809 9268

E-mail:
manuel-5673@outlook.com

Portfolio:
GitHub pages

LinkedIn:
linkedin.com/in/manuel5673/

Languages

English – TOEFL iBT: 97 (2021)
Spanish – Native with outstanding writing skills
German – Basic (A2)
Italian – Intermediate (B2)

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Data Scientist with hands-on experience in delivering easy-to-understand insights via data visualization. Proficient in building advanced statistical models with Python and R.

Education

B.Sc. in Mathematics at University of Guadalajara 01/2014 – 12/2020
Dissertation
Title: "Numerical Solution of Differential Equations using Artificial Neural Networks"

08/2011 – 06/2013, 02/2015 – 06/2015
Electrical Engineering at Monterrey Institute of Technology and Higher Education
[completed 180 credits]
Relevant courses: Object Oriented Programming, and Data Structures

Relevant Experience

Data Science Programmer at Negodata 10/2016 – 04/2017, 02/2021 – Present
- Implemented a tree-based model for forecasting foreign exchange rates
- Created a GUI-based tool for feature selection using LASSO regression
- Implemented a tool that automatically generates PDF-based dashboards of speech metrics

Freelance Statistical Consultant 06/2020 – 01/2021
- Provided advice about statistical inference to social scientists
- Performed data analyses and hypothesis testing on demographic data of students
- Created data visualizations for scientific publications

Current Projects

***The Elements of Statistical Learning*: Study Group** since 02/2021
- Leading the study group (see: group's website)

Automation of Accounting Processes
- Use of computer vision to read bank statements
- Automated generation of partial bank reconciliation statements
- Use of Python to scrape electronic invoicing records

Mathematical and Technical Skills

Relevant courses:
- Analysis and Design of Experiments, Statistical Inference, Multivariate Statistical Methods
- Measure Theory, Machine Learning and Genetic Algorithms

Technical Skills:
- Python (PyTorch, scikit-learn, NumPy, pandas), R and Java
- Advanced LaTeX for scientific writing
- Artificial neural networks (MLP, CNN, RNN, ResNets, attention, encoders)
- Data visualization using D3.js, matplotlib
- Web development using Django (HTML and CSS)
- Agile methodologies (SCRUM, Jira, Kanban)
- SQL and database administration (PostgreSQL)

Additional activities

President of the Student's Council of the Mathematics Major 10/2016 – 10/2017
- Organized a trip to Mexico City to attend the national summit of mathematics
- Co-organized the "Maths and Physics Science Week"

since 04/2021
***Artificial Intelligence and Neuroscience* Continuing Education Programme**
- Currently enrolled; Offered by the Consejo Mexicano de Neurociencias [Mexican Neurosciences Council]