Adrian Pineda Sánchez

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EDUCATION

Aug 2021 - Present	Bachelor's Degree at **Instituto Tecnologico de Monterrey**
	B.S Data Science and Mathematics Engineering (GPA: 97.82/100.0)
	Expected Graduation: Jun 2025
Aug 2018 - May 2021	**Centro Universitario del Noreste**
	Valedictorian & High School Diploma (GPA: 10.0/10.0)

EXPERIENCE

Cemex Ventures Intern in Object detection in Plants with Deep Learning and AI   Oct 2023 - Present

I lead and develop a Power Apps application for monitoring Cemex fleet vehicles, collaborating with divisions in Germany, Spain, Colombia, and Mexico. Using SQL in Azure with Power Automate and SharePoint, I achieved 99.6% efficiency improvement. I develop AI and ML models in Python, including LLMs and NLP with OpenAI, Ollama, and LMStudio, for Cemex's web app and global plants predictions.

ADUX-Vamos Alto Apodaca Olympic and Academic mentor in Mathematics   Feb 2023 - Aug 2024

ADUX is an internationally recognized program by UNICEF that addresses educational backlog in basic and secondary education. I work as an Olympic and Academic mentor in Mathematics (+1,000 students).

On Campus Intern HR Data Analyst for Tecnologico de Monterrey   Feb 2023 - Jul 2023

I automated scheduling and availability for Business and Humanities faculty, managing databases in Sheets and Google Data Studio, achieving a 75% efficiency improvement and 95% effective automation.

PROJECTS (Click for Complete Portfolio, projects and Certfications)

2024 Interface for Data Capture, Analysis, and Encryption for Casa Monarca (Power Apps, SQL, Python).
2024 TDA-PCA in CNNs with ML for Gravitational Wave Prediction in Time Series (Python).
2023 Implementation and Analysis of CNNs for Fashion Images Detection and Categorization (Python).
2023 Optimization for selection of routes and trip parameters for CEMEX Carriers (Python and GAMS).
2023 Statistical analysis for SIMA, about concentrations of polluting gases in Nuevo León (R).
2023 Automation in selection of carrier trips for Ternium using Machine Learning (Python).

LEADERSHIP AND AWARDS (Click for brief portfolio presentation)

2024 Finalist Datathon Hey Banco: SA of tweets with TF for insight creation with AI trained models.
2023 3rd place Datathon Hey Banco: Expense prediction using ML (97% acc) for customer financial care.
2022 International Most Outstanding Country Delegation at Knovva Academy Model G20.
2021 Lideres del Mañana Scholarship (8th Gen) In Tec de Monterrey given to <1% of applicants (+20,000).

SKILLS

Language	Experience	Language	Experience	Program	Experience
Python	3 years	SQL	2 years	Linux/Ubuntu	6 months
MATLAB	2.5 years	GAMS, Prolog, C#	1 year	Power Apps, Automate,BI,Pages	1.5 years
R	2.5 years	Rest API's, LLMs	1 year	Nessus, Docker, DBeaver	1 year
C++	2 years	English	B2	Azure Data Studio	1 year

Libraries Proficiency

Statistical and Data Analysis: NumPy, Pandas, R, Matplotlib, ggplot2, Seaborn, SciPy, Statsmodels, SymPy.
AI and ML: Scikit-Learn, TensorFlow, PyTorch, LangChain, OpenAI, Crewai, Transformers, Streamlit(web).