




Diego Alejandro Hernández Castañeda

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As a Mathematician passionate about programming and data science, I am driven by a commitment to solving complex real-world problems. My experience in diverse research and professional projects has equipped me with expertise in machine learning models, data analysis, and the collaborative skills.

Education

2022- **PhD Student in Systems and Computer Engineering**, *Universidad Nacional de Colombia*.

2016-2021 **Mathematician**, *Universidad Nacional de Colombia*, GPA - **4.2/5.0**, *Final Project*: New metric for performance evaluation in grid predictive surveillance models.

Selected Projects

2019 **Epidemiology Modeling**, *Universidad Nacional de Colombia*, Data Analytics and Mathematical Modeling.

- Generation of a risk index model for the propagation of African Swine Fever virus in Colombia.

2019 **Crime Modeling**, *Universidad Nacional de Colombia*, Data Analytics and Mathematical Modeling.

- Implementation of three crime prediction models and optimization of patrolling areas for the Colombian National Police.

Work Experience

June 2024 **Present**, *Lecturer*, *Universidad Nacional de Colombia*.

- Lecturer for the Economic Engineering course.

November **Present**, *Rappi*, Specialist Data Analyst.

- 2021 ◦ Generation of web scraping models for competitors, financial data analysis, price optimization models for global operation proposals.

March 2020 **October 2021**, *NUVU*, Data Scientist.

- Analysis, processing, and generation of machine learning models for financial, demographic, and geospatial data.

Technical Skills

Languages **Python, SQL**

Libraries **Pandas, GeoPandas, TensorFlow, scikit-learn**

Publications

Article **2022**, *John Gualteros; Diego Hernández; Erika Upegui; CO2 monitoring using sentinel-5p and gee: Cundinamarca case study during covid-19, Tecnología, Investigación y Academia (TIA)*, ISSN: 2344-8288.

Article **2018**, *Gabriel Lozano, Diego Hernández, Nadya Chaves, Mauricio Valderrama, José Mojica, Francisco Gómez; Characterization of skin patterns in Pseudoplatystoma Magdaleniatum, IEEE, DOI: 10.23919/SustainIT.2017.8379806*.