Nicolás Forero Baena
Data Scientist

Interested in working as a data scientist in the technological, commercial, financial, biomedical and governance sectors. Experienced in research & development and quality control/analysis in industry, as well as academic research and teaching. Certified C1 English proficiency (can also be assessed in an interview). Passionate about science, technology, knowledge and a better future.

Contact

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Portfolio
https://nicolasfbportfolio.netlify.app/

Education

2023 (in progress)
Master's in Applied Statistics and Data Science
El Bosque University (UEB)

2013 - 2015
MSc Sciences-Biochemistry (merits)
National University of Colombia (UNAL)

2007 - 2012
BSc Chemistry
National University of Colombia (UNAL)

Skills

- R / RStudio / Shiny
- Python / Colab / Spyder / Streamlit
- Data wrangling (e.g. Pandas, Numpy, dplyr, tidyr)
- Machine & deep learning (e.g. Scikit-learn, caret, keras)
- Multivariate analysis (e.g. FactoMineR)
- NLP (e.g. NLTK, Gensim)
- MySQL Workbench

Language

English (C1 - Advanced)

Spanish (Native)

Experience

2018 - 2023
Bank of the Republic (Colombia) - BRC | Bogotá DC
R&D | QC | QA Scientist

I conducted research as a Research and Development Scientist at the Central Bank of Colombia, with projects aimed at enhancing product quality and reliability. Implemented statistical and mathematical models, including parametric, semi-parametric, and non-parametric survival models, to study the circulation of monetary species. Provided scientific and technical support to production and classification plants, by means of physicochemical and optical tests, rheology, metallography, and chemical analysis. As a Quality Control Analyst, I standardized laboratory techniques and ensured compliance with ISO and TAPPI standards. Additionally, served as an ISO 9001-2015 Internal Auditor before external recertification audits. Managed product and service acquisitions, demonstrating proficiency in corporate and state contracting within legal frameworks.

2017
Bogota Technological Corporation | Bogotá DC
Teacher

I taught courses in biochemistry, food chemistry, biology and research methods. Beyond conventional teaching, I assumed an administrative role as the Language Center Coordinator, managing and coordinating language compliance. My commitment extended to extracurricular education, where I imparted knowledge in basic Japanese grammar and writing.

2013 - 2015
National University of Colombia - Laboratory of Basic Research in Biochemistry | Bogotá DC
Jr. Researcher | Teaching Assistant

I investigated proteins from disease-causing parasites such as *Plasmodium falciparum*, *Trypanosoma cruzi*, *Leishmania braziliensis* and *Giardia lamblia*, by means of techniques such as bioinformatics, PCR, DNA and protein electrophoresis, recombinant DNA technology, enzyme kinetics, etc. I worked under contracts or stipends form the University or the Ministry of Sciences. The results were published or presented in national and international journals or congresses, respectively. Additionally, I served as a Teaching Assistant for laboratory courses in organic and analytical chemistry, supporting students of chemistry, pharmaceutical chemistry, and chemical engineering. Check my scientific CV: https://scienti.minciencias.gov.co/cvlac/visualizador/generarCurriculoCv.do?cod_rh=0001426075

References

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Leonardo Urrea
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