



# ABEL ISAÍAS GUTIÉRREZ-CRUZ

BIOLOGICAL PHARMACEUTICAL CHEMIST

## PROFESSIONAL PROFILE

Proactive undergraduate with extensive knowledge in data analysis through statistical methods and methodologies for quality assurance of processes.

## CAREER OBJECTIVE

To develop and to implement solutions through different approaches in order to evaluate data, thus guaranteeing an optimal degree of quality and reproducibility of results.

## CONTACT



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Chimalhuacán, State of Mexico.  
Can move if needed



Abel Isaías Gutiérrez Cruz



isaiasgutierrez.me

## LANGUAGES

- Spanish (native)
- English Intermediate

## SKILLS

- Problem solving
- Team player
- Creativity
- Information summarizing
- Leadership
- Adaptability
- Empathy

## EDUCATION

### Universidad Nacional Autónoma de México

Undergraduate in Biological Pharmaceutical Chemistry, Faculty of Chemistry

August 2016 - present

## ACADEMIC UPGRADING

### SQL for Data Science (November 2020 - October 2021)

University of California, Coursera

- Management, extraction, and filtering of data in an efficient way.
- Implementing complex SQL queries using joins, triggers, and views

### Specialization in Deep Learning (Agosto 2021- Diciembre, 2021)

DeepLearning.AI, Coursera

- Developing from scratch deep neural networks using NumPy to understand the basics of deep learning (activation functions, cost functions, gradient descent). I also used Tensorflow and Keras to solve more complex problems.
- Implementing processes of regularization, optimization, and hyperparameter tuning to improve deep neural networks

### Six Sigma for begginers (June- September, 2020)

Faculty of Chemistry, UNAM

- Implementation of Six Sigma and Lean methodology
- Development of structured thinking to improve the decision-making process through statistical techniques

## EXPERIENCE

### Extracurricular

### Academic internship in Instituto Nacional de Medicina Genómica (November 2020 - June 2021)

Analyzing a high amount of data to understand biological systems using statistical methods, information, and graph theory. In addition, I organized information hierarchically to write scientific texts.

### Work

### Own enterprise Odde (June 2020 - Present)

Deploying a system to record the movement of inventory with a 1NF design in Postgres using SQLAlchemy, Flask, and Docker. I obtained an improvement in the efficiency of the necessary transactions in sales. I contacted clients to sell products as well.

## ABILITIES AND KNOWLEDGE

- I work smoothly with R, Python, and SQL. I have basic knowledge of C++.
- I work comfortably with MySQL and PostgreSQL.
- I have extensive knowledge of statistical inference and exploratory data analysis techniques.