

curriculum vitae of
Ariana Deyaneria Jiménez Narváez

A 21-year-old IT student currently in the fourth year of studies, my profound passion lies in data science and artificial intelligence. With a specific interest in working with images and predicting process outcomes, my commitment extends to advancing diversity and empowering women in STEM. The objective is to contribute to pioneering data science discoveries that bring tangible benefits to academia and society.

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EDUCATION

Oct. 2019 – present	Bachelor of Science in Information Technology	YACHAY TECH UNIVERSITY, ECUADOR
Sept. 2013 – Jun. 2019	High School Diploma (or equivalent)	UNIDAD EDUCATIVA REPLICA JUAN PIO MONTUFA, ECUADOR
	Monograph title: “Data Analysis on Global Warming”.	

PUBLICATIONS

Authors who equally contributed to a publication are marked with a †.

CONFERENCE AND JOURNAL PUBLICATIONS

1. Use of diffusion models for the prediction of the Septorhinoplasty surgeries results.
Authors: Jonathan Javier Loor Duque[†], Rosaura Yokasta Bravo Pita[†], Ariana Deyaneira Jiménez Narváez[†], Freddy Raúl Guzmán Suárez[†], and Manuel Eugenio Morocho Cayamcela[†].
Conference: INTERNATIONAL CONFERENCE ON APPLIED ENGINEERING AND INNOVATIVE TECHNOLOGIES (AENIT-2023).

HONORS

Nov. 2023	1. Finalist in the “Tuapp 2023” Application Development Tournament.
Oct. 2023	2. Second place in the “Development Challenge” of the “IAckathon 2023: Innovating Public Procurement with Artificial Intelligence.”
Sept. 2023	3. Awarded a scholarship in the “1,000 Talents program for the Digital Development of Latin America and the Caribbean, launched 2023” by Huawei in the field of Artificial Intelligence.
Aug. 2023	4. Participation in the summer school “La Serena, School for Data Science 2023” in Chile.
June. 2023	5. Participated in the 3rd edition of the program POWER (Providing Opportunities for Women’s Economic Rise) organized by the US Embassy.
May. 2022	6. Honorable mention for outstanding contributions as an organizer of the Hult Prize Yachay Tech 2022 in the Public Relations Commission.

COURSES

- Understanding Data Science (Datacamp, 4 hours)
- Introduction to ChatGTP (Datacamp, 4 hours)
- Deep Learning with PyTorch (Datacamp, 1 week)
- Understanding Artificial Intelligence (Datacamp, 4 hours)
- Image Processing in Python (Datacamp, 2 weeks)
- Biomedical Image Analysis in Python (Datacamp, 2 weeks)
- Image Modeling with Keras (Datacamp, 1 week)
- Programacion en C integrando microcontroladores (IEEE EMBS UNAC, 22 hours)

- Data Analysis (AIESEC, 10 hours)
- Hacking WI-FI Third Edition (Academia de Ciberseguridad Hacker Mentor, 5 hours)

SKILLS

1. Strong knowledge of the programming languages **Python**, **C**, with a focus on high-performance data manipulation and analysis.
2. Working knowledge in data visualization tools such as **Power BI**.
3. Proficient in Python libraries including **NumPy**, **Pandas**, **Scikit-learn**, and **TensorFlow** for efficient data processing, analysis, and machine learning implementation.
4. Skilled in **SQL**, **MySQL**, and **MongoDB** for efficient relational database handling. Proficient in designing schemas, optimizing queries, and managing MySQL databases. Experienced in MongoDB for flexible schema design and unstructured data handling.
5. Have experience in full-stack development using **React**, **Java**, **firebase** and **TypeScript**, contributing to the creation of robust and scalable applications.

VOLUNTEERING

May. 2023 - Present	Member of the group of "Mentores" of Yachay Tech, in charge of guiding new students entering the University.
Jan. 2023 - Jan. 2024	Co-founder and President of the IEEE Computer Society Yachay Tech student chapter. Participated in the "IA Trainers 2023" program focused on promoting AI teaching in children and adolescents.
Nov. 2023-Dic. 2023	Belonged to the "Social Projects" commission of the IEEE student chapter, Women in Engineering.
May 2022-Oct. 2022	Co-founder and coordinator of the Hamilton Tech community service project at Yachay Tech University. In this project, rural school children were taught about STEM sciences and how to actively participate in them.
March 2021-Dec. 2021	Member of the "Workshops" area of Ciencia Sí Kids. Organization dedicated to the popularization of science for children.
Sept. 2021-Dic. 2021	Leading member of Hub Ciencia Emprende 2022.
May. 2022-March 2023	Member of the scientific dissemination network. "Red DivulgaCiencia"
July. 2021-March 2022	Participated in the program "2nd edition of Geeky Latin@s: Empowering Young Latin@s in STEAM"
Sept. 2021-Dic. 2021	

EXTRACURRICULAR ACTIVITIES

April. 2023 - Present	Co-founder and coordinator of the logistics department of the RobotFight Club Yachay Tech.
Oct. 2022-Dic. 2022	Participated in the organizing committee of the Latin American Festival of Free Software Installation 2022
Aug. 2022-Sept. 2022	PIIB 2022 research program: Artificial intelligence in health.
Apr. 2021-Jul. 2021	Organizer of the Ecuadorian Congress of Young Researchers 2021 (Financial Committee).
Apr. 2021-Oct. 2021	Participated in the academic activities commission of the Bioscience Club Yachay Tech.
May. 2021-Oct. 2021	Coordinator of the Internal Scares department of the Yachay Tech University Computer Science Club in 2021.

RESEARCH PROJECTS

Research Assistant in the project: "Application of computational intelligence to facilitate the technological transition towards the mobility of electric vehicles using scenarios based on simulation"

- Tutor: Rolando Armas, PHD- tarmas@yachaytech.edu.ec
- Duration: May 2023-Present

^oSome projects: GitHub

Creation of a Machine Learning model to predict the stage of an insurance bidding process, with public data from Ecuador.

- Tutor: Erick Cuenca, PHD- ecuenca@yachaytech.edu.ec
- Duration: Sept. 2023-Nov.2023
- Research Group: Data Science and Analytics YT

Prediction of possible disasters based on landslide data collected from different parts of a city in Ecuador.

- Tutors: Manuel Eugenio Morocho, PHD-mmorocho@yachaytech.edu.ec and Raisa Torres, MSc-ritorres@yachaytech.edu.ec
- Duration: Oct. 2023-Present
- Research Group: DeepARC Research

Analysis, detection and prediction of possible pests within the Galapagos Islands using artificial intelligence models

- Tutor: Tutors: Manuel Eugenio Morocho, PHD-mmorocho@yachaytech.edu.ec
- Co-tutor: Paulina Vizcaino, MSc (Universidad Internacional del Ecuador - UIDE)
- Duration: Sept. 2023 - Present
- Research Group: DeepARC Research

Analyzing Rainfall Patterns in Ecuador for Predictive Modeling

- Tutors: Manuel Eugenio Morocho, PHD-mmorocho@yachaytech.edu.ec and Raisa Torres, MSc-ritorres@yachaytech.edu.ec
- Duration: Nov. 2023-Present
- Research Group: DeepARC Research