Susana Rivera Vergara

Ingeniera en Sistemas Computacionales IPN (ESCOM) | Cloud & AI Research | Backend Developer |
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PROFESSIONAL SUMMARY

Computer Systems Engineer (ESCOM-IPN) with a strong technical foundation in **Artificial Intelligence** and **Data Science**. Author of academic research for breast cancer relapse and survival prediction using **Python, BioBERT, and Random Forest Survival**. Experienced in **Backend development (.NET)** and **Quality Assurance (QA)** within Agile environments. Recognized by the International Youth Foundation (IYF) as a **"Role Model"** for impacting and closing gender gaps in **STEAM**.

TECHNICAL SKILLS

- **AI & Data: Python (NLP), BioBERT, Scikit-learn, R, Survival Analysis.**
- **Backend & Cloud: C#, .NET, SQL Server, Azure (AZ-900), Google Cloud.**
- **Tools & Methodologies: Git, SCRUM, Linux, Unit Testing.**
- **Languages: Spanish (Native), English (Intermediate - Technical reading and conversation).**

RESEARCH & PROJECTS

ONCOLOGY PREDICTIVE SYSTEM DEVELOPMENT (Thesis) | ESCOM - IPN

- Developed a clinical decision support web system to predict breast cancer relapse and survival.
- Implemented a hybrid NLP and Machine Learning architecture using BioBERT for medical language processing and Random Forest Survival for risk analysis.
- Managed the full data lifecycle on Azure, including model training and system hosting.
- Validated clinical utility and model accuracy in collaboration with specialists from INCAN and HYMN.

PROFESSIONAL EXPERIENCE

Practia Global | Quality Assurance Intern | Sep 2025 – Dec 2025

- Designed and executed test case matrices for critical system flow validation.
- Documented technical incidents and supported software continuous improvement through functional testing.
- Collaborated in multidisciplinary teams under SCRUM methodology.

Virtual Business | Jr. Backend Developer | Jul 2022 – May 2023

- Successfully migrated a database from Oracle to SQL, optimizing performance and reducing operational costs.
- Developed backend solutions using C# and .NET aligned with business requirements.

LEADERSHIP & OUTREACH

International Youth Foundation (IYF): Conectadas | *Ambassador* | 2024 – Present

- Mentored young women in **Python** and **Google IT Support** programs, focusing on professional profile building and SMART goals.
- Featured as a **"Role Model"** in the documentary series "Haz que suceda" (supported by Google.org) for transforming communities through technology.

PERSONAL PROJECTS

Personal Portfolio Website: https://susanarivs.github.io/PaginaWebP/

Developed using HTML, CSS, and JavaScript. Features my professional portfolio, contact information, and links to projects focused on Artificial Intelligence and educational technology.

CERTIFICATIONS

- **Quantum Intermediate Algorithms – QCOBALT (Womanium, QWorld) – Sep 2024.**
- **Google Data Analytics Professional Certificate – Feb 2023.**
- **Computing Foundations – Google Cloud – Dec 2023.**
- **Azure AZ-900 Fundamentals – Microsoft – Jul 2022.**