

# phlipsanm



phlipsnm@gmail.com



@PhilipSanM



PhilipSanM.github.io

## EDUCATION

### Superior School of Computer Science (ESCOM IPN)

Graduating in June 2025

#### Artificial Intelligence Engineering B.S.

GPA 88 out of 100

- Relevant courses include: Machine Learning, Bio-inspired Computing, Artificial Vision and Natural Language Processing.

## EXPERIENCE

### Artificial Vision Research Intern | CIDETEC IPN

January 2023 - Present

- Investigating methods for real-time detection of robberies and assaults using security cameras. Currently actively engaged in feature extraction from video data for analysis purposes.

## MAJOR PROJECTS

### SAGUAC

September 2023

- **Reduced CO2** emissions at **Grupo Modelo** (a Mexican brewery) by implementing a new method to reuse water from the beer production process. Ensured its safety and security by deploying a **ML model** based on **DBSCAN** to detect anomalies in the pipes.
- **Collaboratively** participated in **CHELATHON 2023**, a Hackathon hosted by Grupo Modelo, and got **2nd place** among more than 100 presented projects.

### BITACORA-DIARIA [↗](#)

December 2023

- Developed an intelligent journal assistant by **encoding a personalized word2vec** using the **CBOV algorithm** and a Spanish corpus for word embedding. Implemented an **RNN** for generating responses and aiding the author in journaling throughout the day.
- Participated in the **Encounter for Innovative Students 2023 IPN**. [↗](#)

To check out more of my projects, please feel free to visit my own portfolio at [PhilipSanM.github.io](https://PhilipSanM.github.io) [↗](#)

## EXTRACURRICULAR

### IBM Z Student Ambassador Captain

May 2022 - Present

- Led impactful technology activities focused on Z Systems to **promote learning** and innovation for over 100 students worldwide by incorporating practices in **IBM Cloud for AI** and **Z Mainframe** for **Bash and Python scripting**.
- **Speaker at IBM zDay** (September 2022) Presented on the topic of **churn rate** in clients for banks by using a **ML model** based on **random forest**. [↗](#)

### ESCOM ACM Student Chapter

May 2022 - Present

- **ICPC 2022/2023 Grand Price of Mexico** Ranked 256th out with **honorable mention**. [↗](#)
- Helping over 30 students with foundational knowledge to excel in competitive programming contests, covering topics such as recursion, backtracking, and dynamic programming.

## SKILLS

### PROGRAMMING LANGUAGES

**2 Years: Python 3** mainly for **AI** and **DC**, and leetcode problems.  
**1 Year: Julia 1.9.0** mainly for **Artificial Vision**.  
**3 Months: Java JDK 17** used in mainframe task and practices, **R** Used for data analysis.

### TECHNOLOGIES

- Git
- Scikit-learn and TensorFlow
- SQL (Currently learning)
- Vim
- Pandas and Numpy

### COURSES AND APPRENTICESHIPS

- **IBM Z Xplore** student, platform by **IBM**, **IBM Z Xplore Concepts** and **Advanced IBM Badges**. [↗](#)
- **Open MAINFRAME project Education** apprentice and collaborator. [↗](#)
- **Japanese-Language Proficiency N5** Certification, **Japanese 70%**. [↗](#)
- **English** (fluent).
- **Google Cloud** Computing Foundations Academy Certificate and **Google Cloud Academy - Badges** about **GCP**. [↗](#)