

Data Science



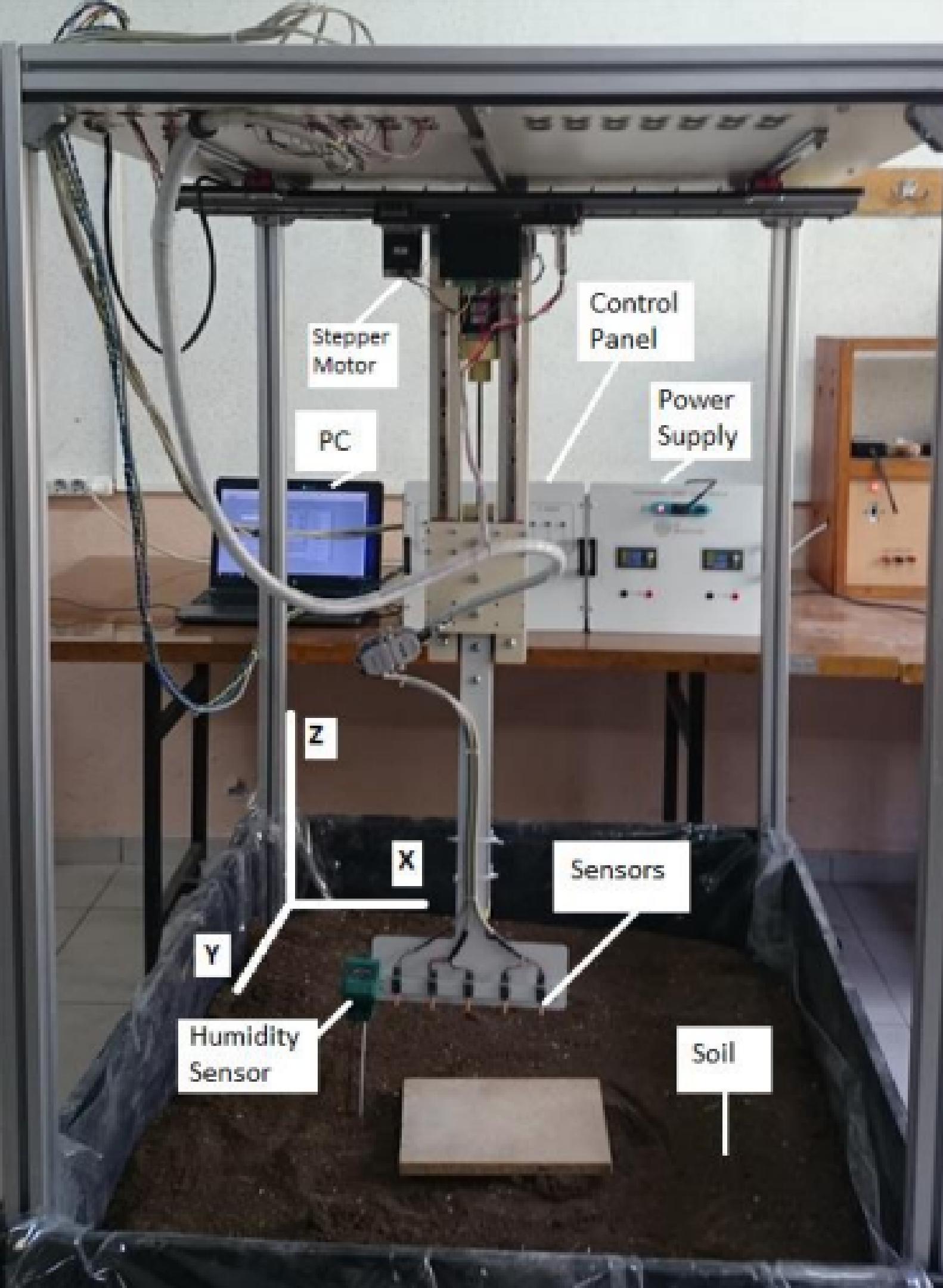
Hackathon Land Mines

Embedded
Solutions



Embedded
Systems

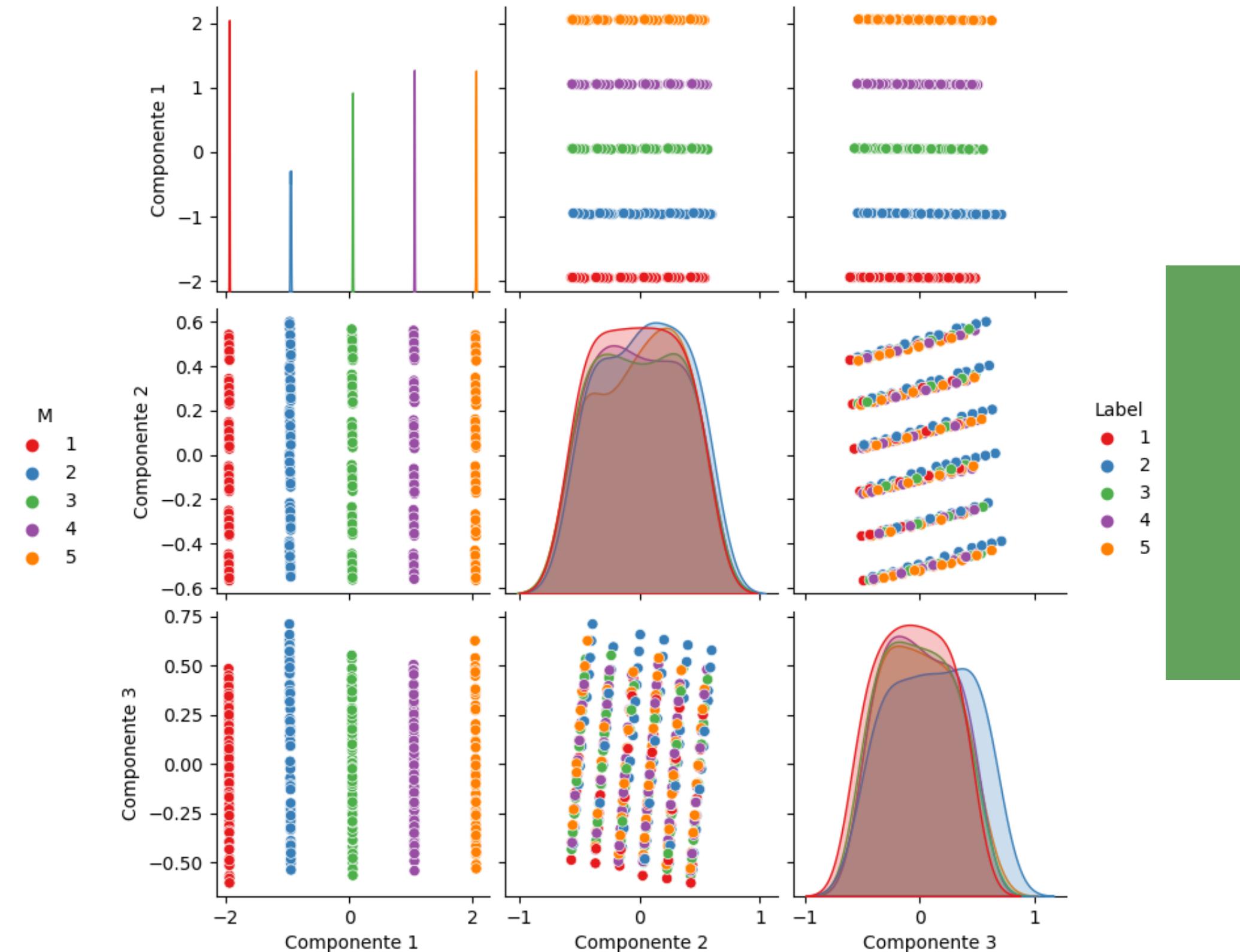
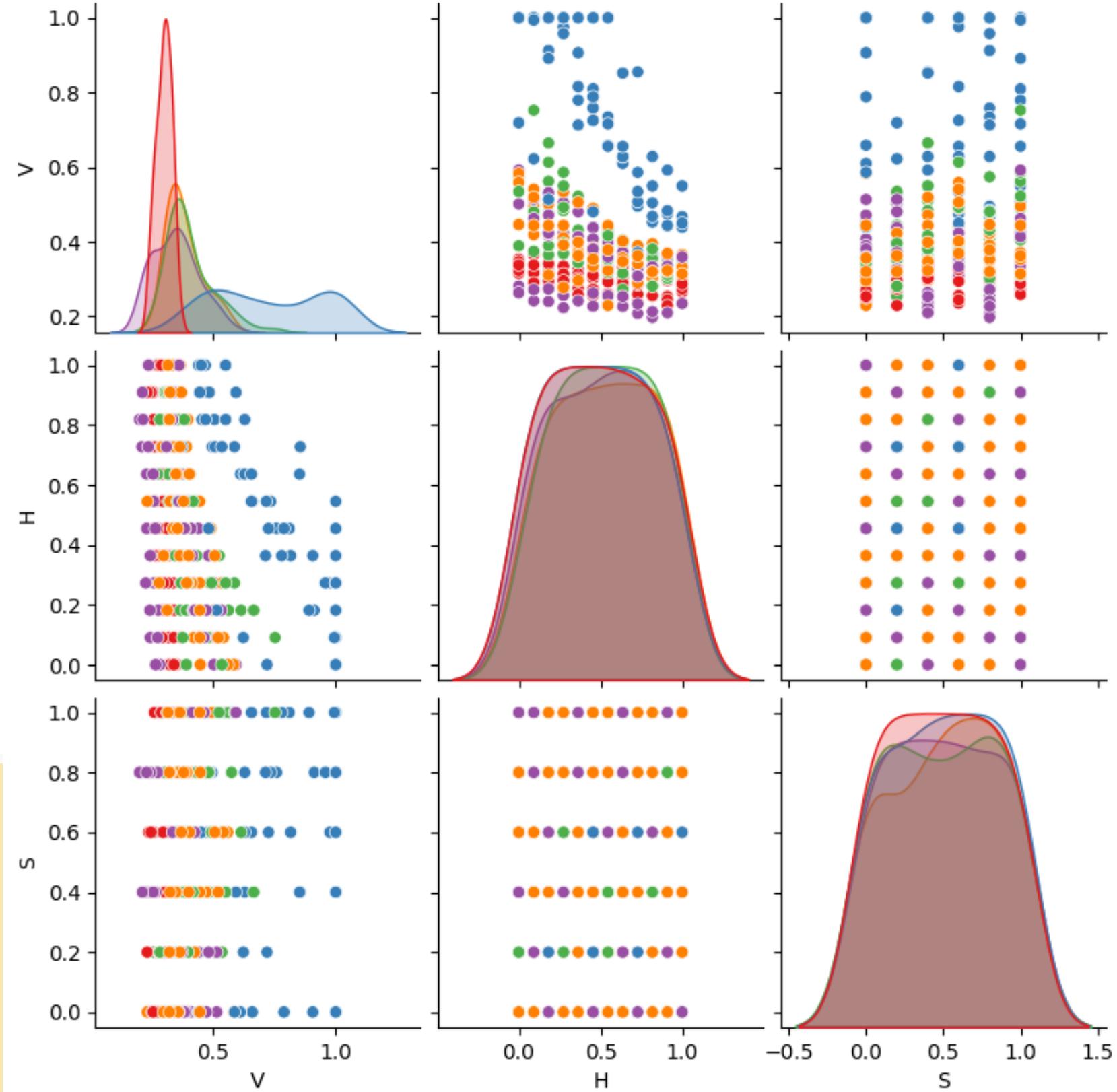
Descripción DataSet



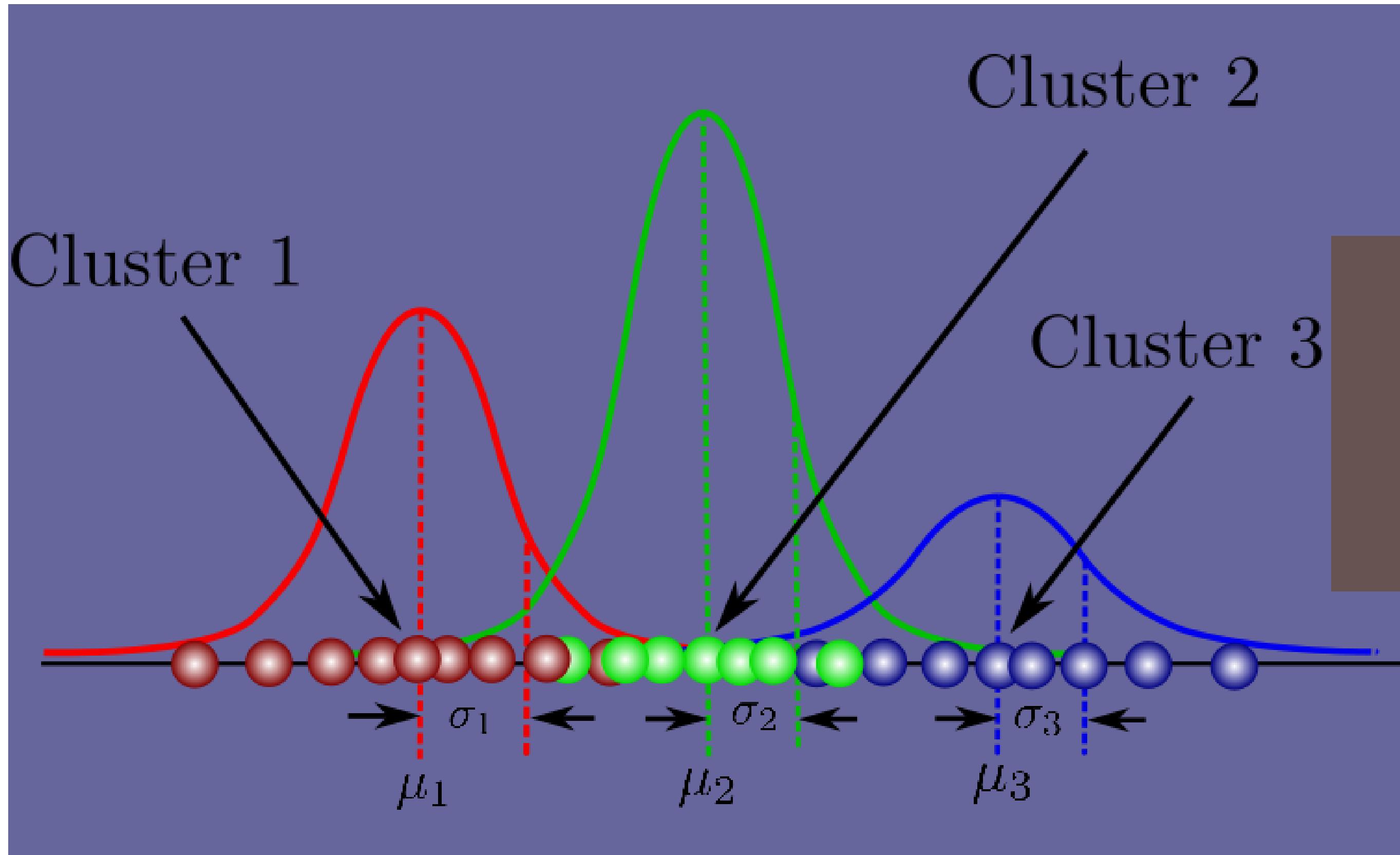
Se cuenta con un dataset con 3 atributos y una salida.

1. Voltaje
2. Altura
3. Tipo de Suelo
4. Tipo de Mina (Salida)

Analisis de datos

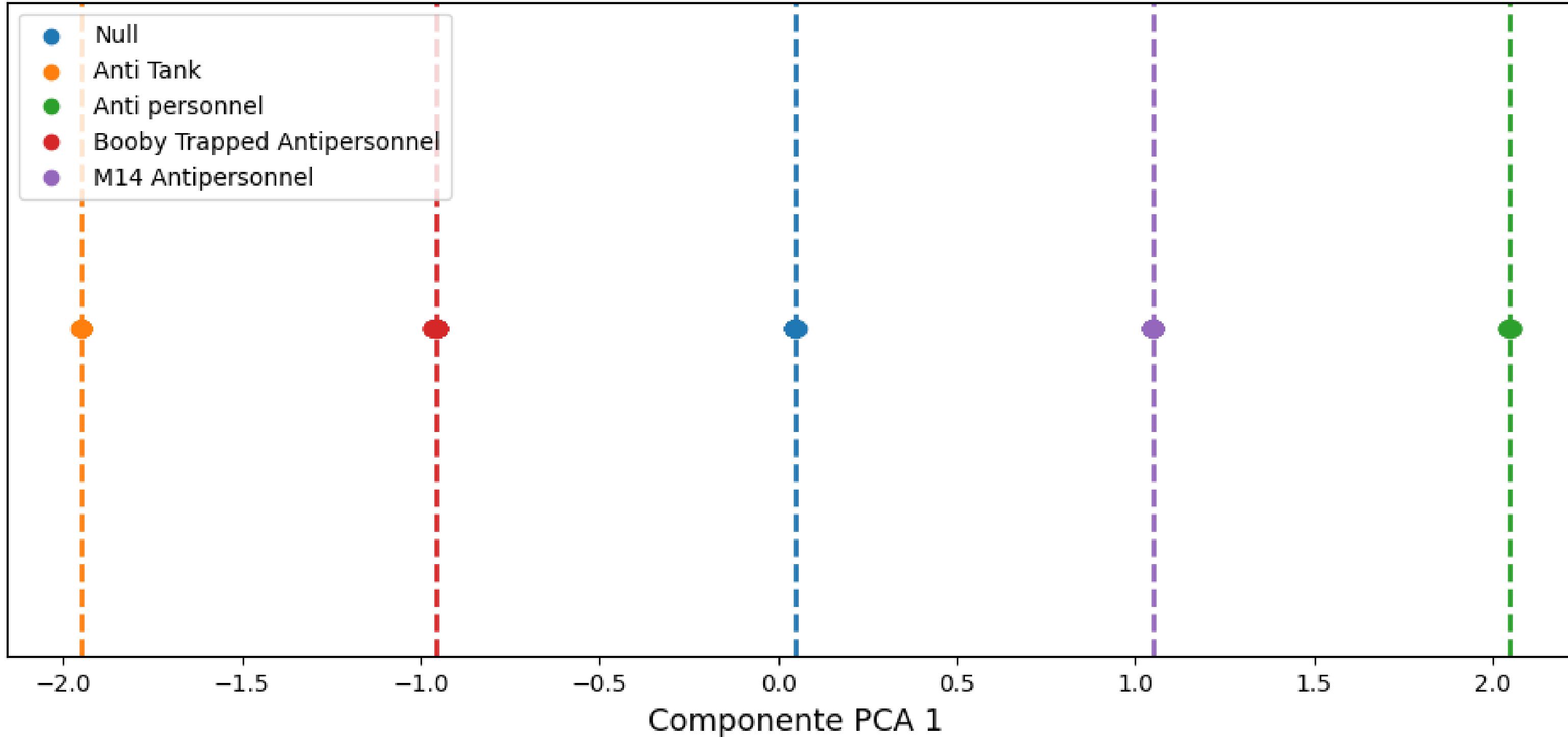


Modelo GMM

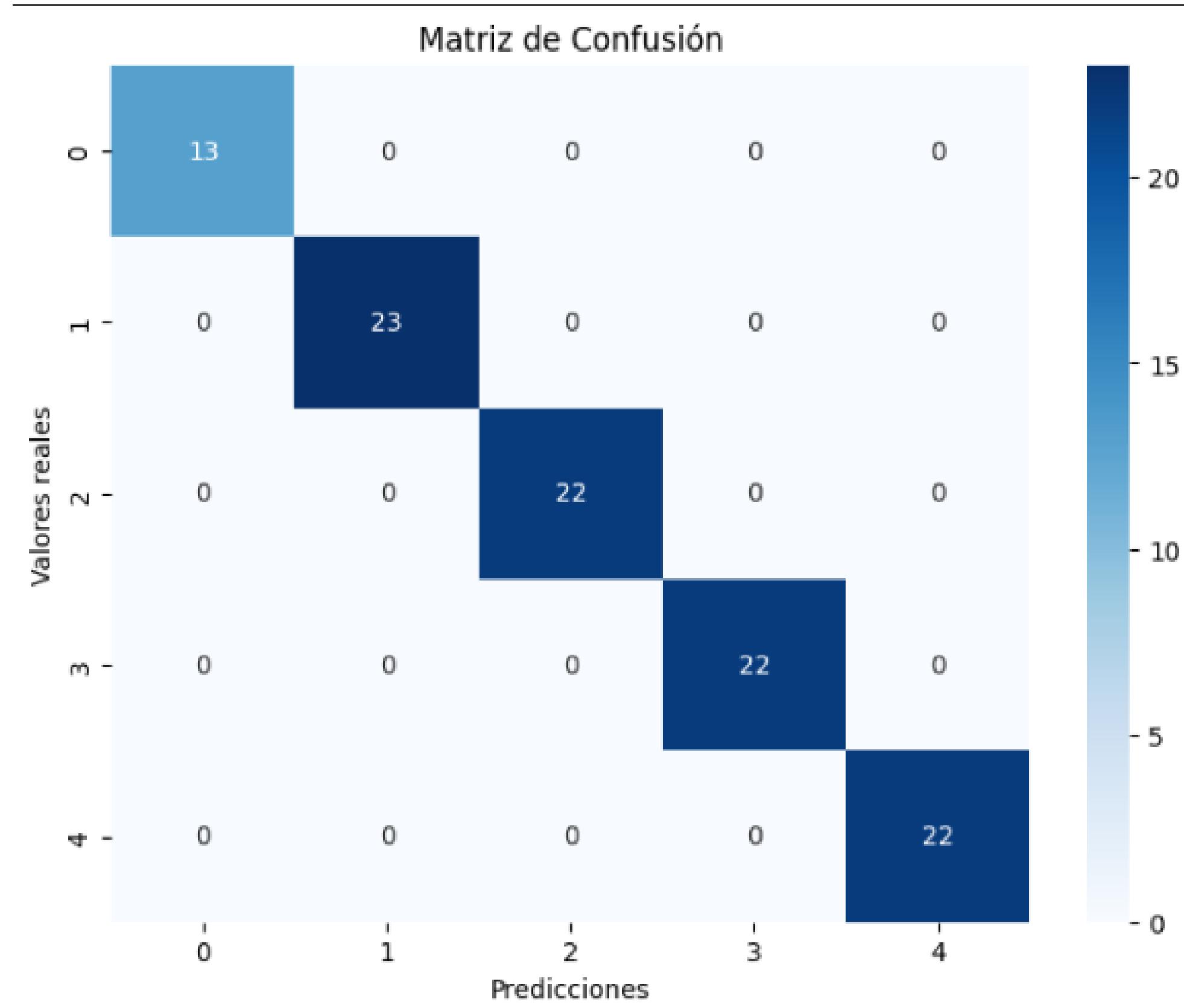


Nuestro modelo GMM

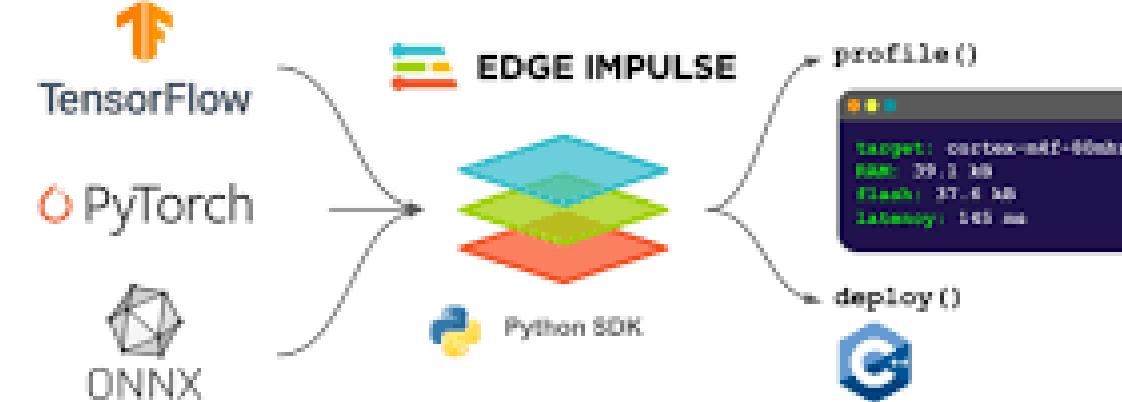
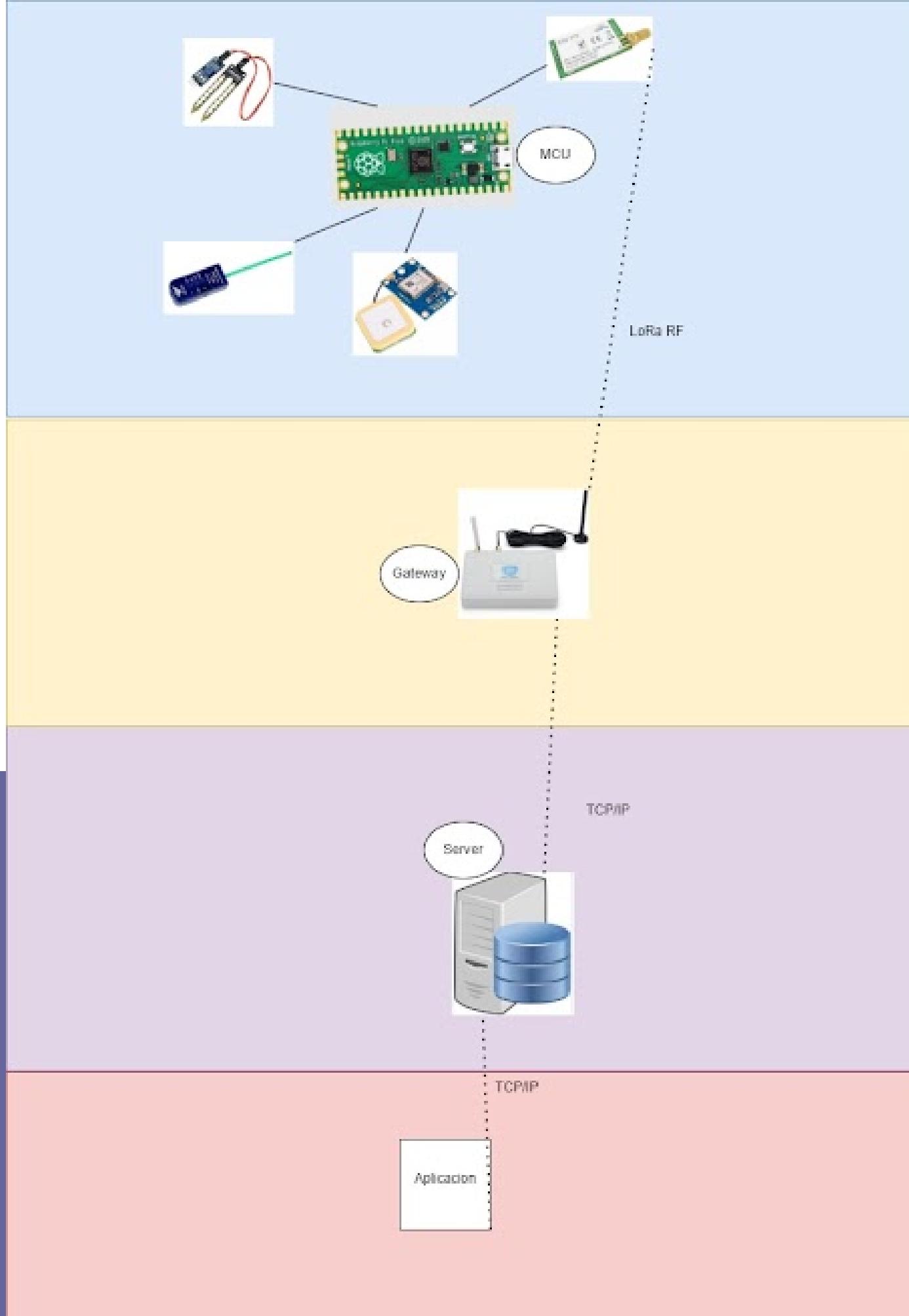
GMM con μ de Clusters



Nuestro modelo GMM

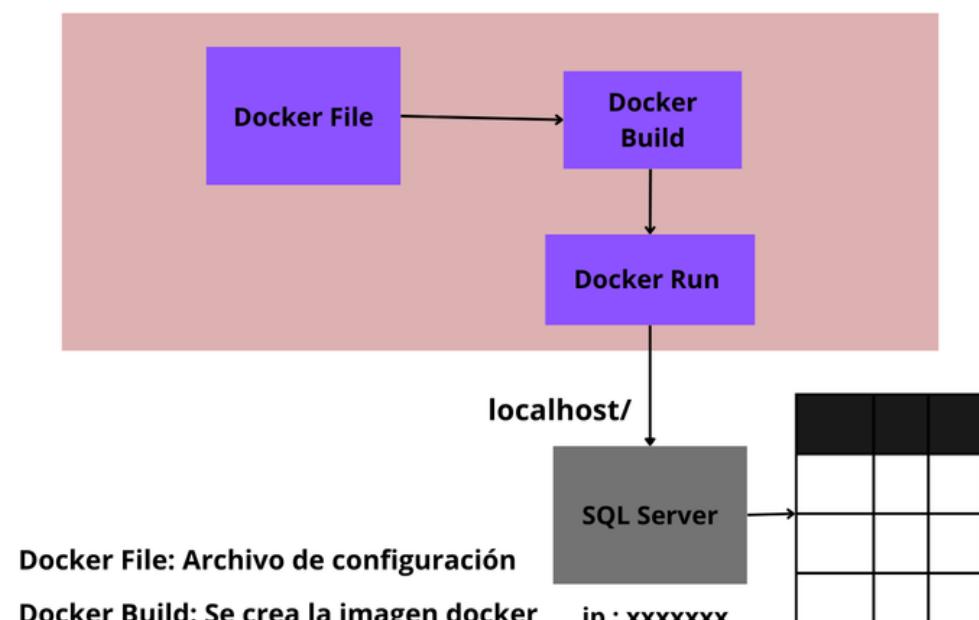


Nuestra propuesta



Contenedor Docker

 **FastAPI**



Docker File: Archivo de configuración

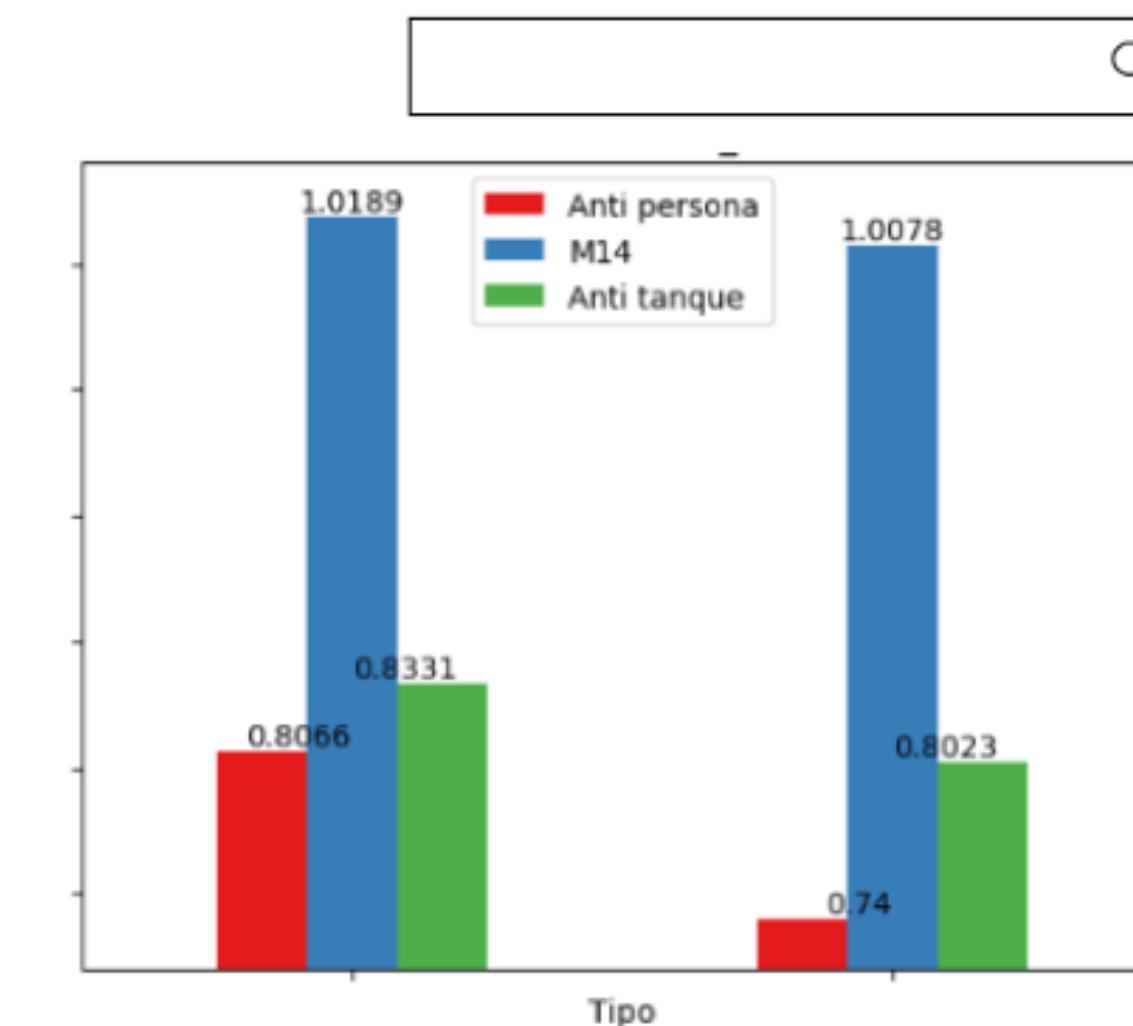
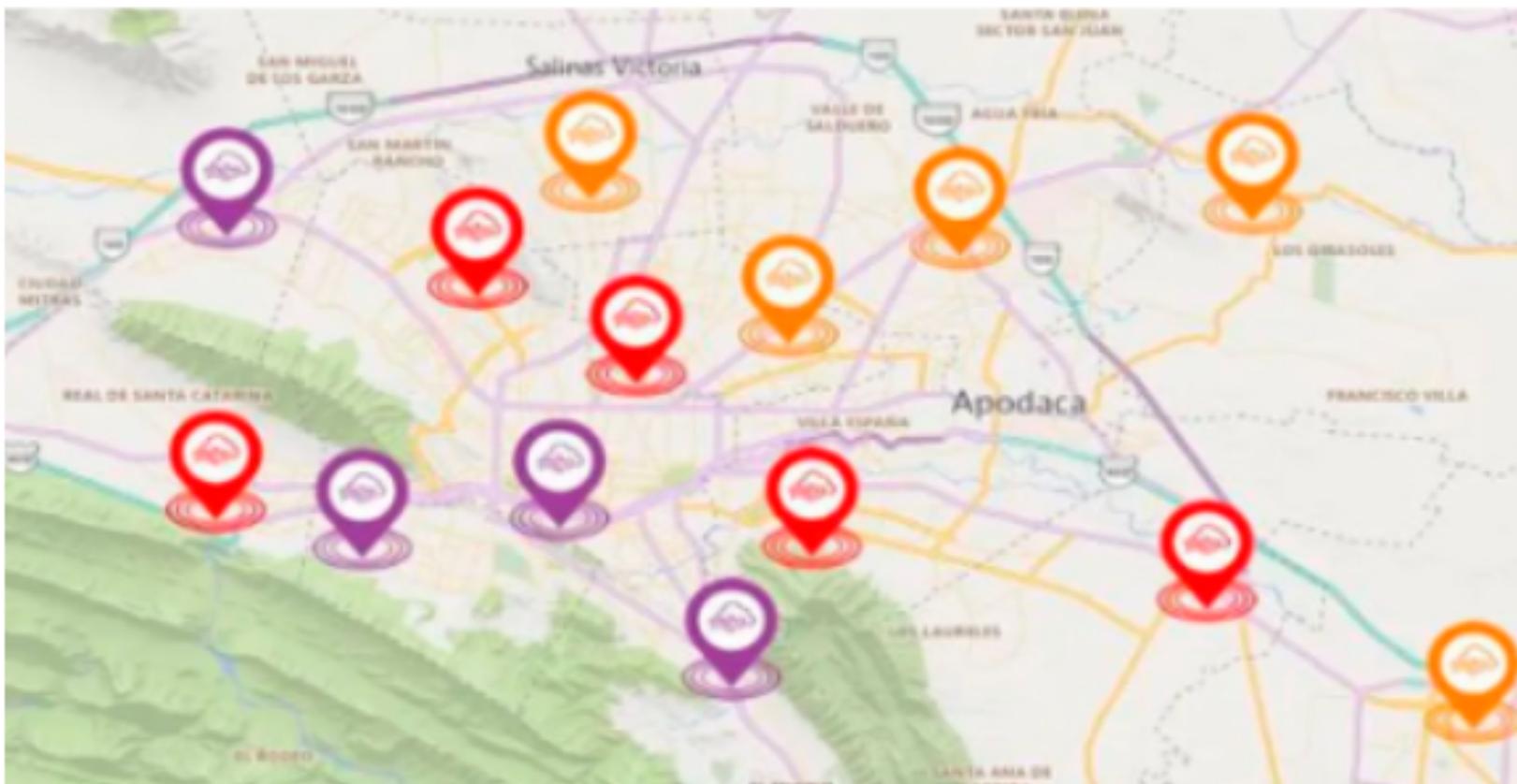
Docker Build: Se crea la imagen docker

Docker Run: Inicializa el docker con el script de recolección de datos

SQL Server: Conexión por IP/Port
Extracción de datos
Guardado de datos de forma estructural

ip : xxxxxxxx
port: xxxX

Alertas activas



Departamento	# Minas	Tipo	Coordenadas
Barranquilla	135	5	6.162129, -75.630732
Antioquia	12	1	6.162129, -75.630732
Bogotá	50	3	6.162129, -75.630732