**UNIVERSIDAD DE BUENOS AIRES - 2025**

***BIG DATA & MACHINE LEARNING***

**Trabajo Práctico N°3**

***grupo 7***

**Integrantes:**

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1. **parte i**

**Gráfico, Histograma

Descripción generada automáticamente**

**Gráfico, Histograma

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**grafico 1: Panel A: Histograma de Edad**

**El gráfico muestra la distribución de frecuencias de la edad en la muestra. Se observa que la mayor parte de las personas tiene entre 10 y 30 años, con una disminución progresiva hacia edades más avanzadas.**

**grafico 2: Panel B: Distribución de Edad por Condición Laboral**

**El gráfico compara la densidad de edad entre personas ocupadas (verde) y desocupadas (rojo). Se nota que los desocupados se concentran en edades jóvenes (alrededor de los 20 años), mientras que los ocupados tienen una distribución más extendida, centrada en edades medias.**

**3) a**

![Gráfico, Gráfico de barras, Histograma

Descripción generada automáticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4S1kRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDI1OjA1OjEyIDIzOjM3OjE4AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM4MAAAkpIAAgAAAAM4MAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**b**

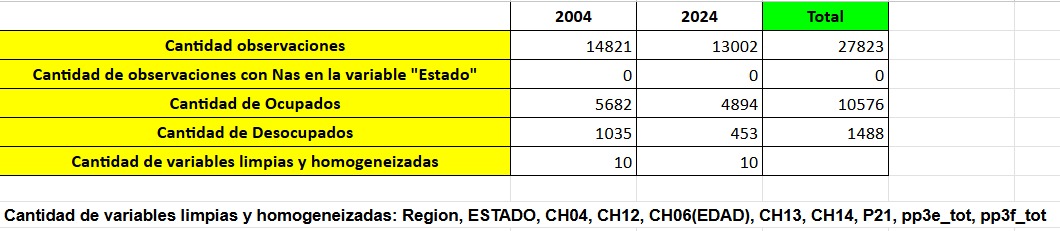
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Descripción generada 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**panel a: la distribución global de salarios muestra una marcada asimetría positiva, con una alta concentración de ingresos bajos y una larga escala hacia valores superiores**

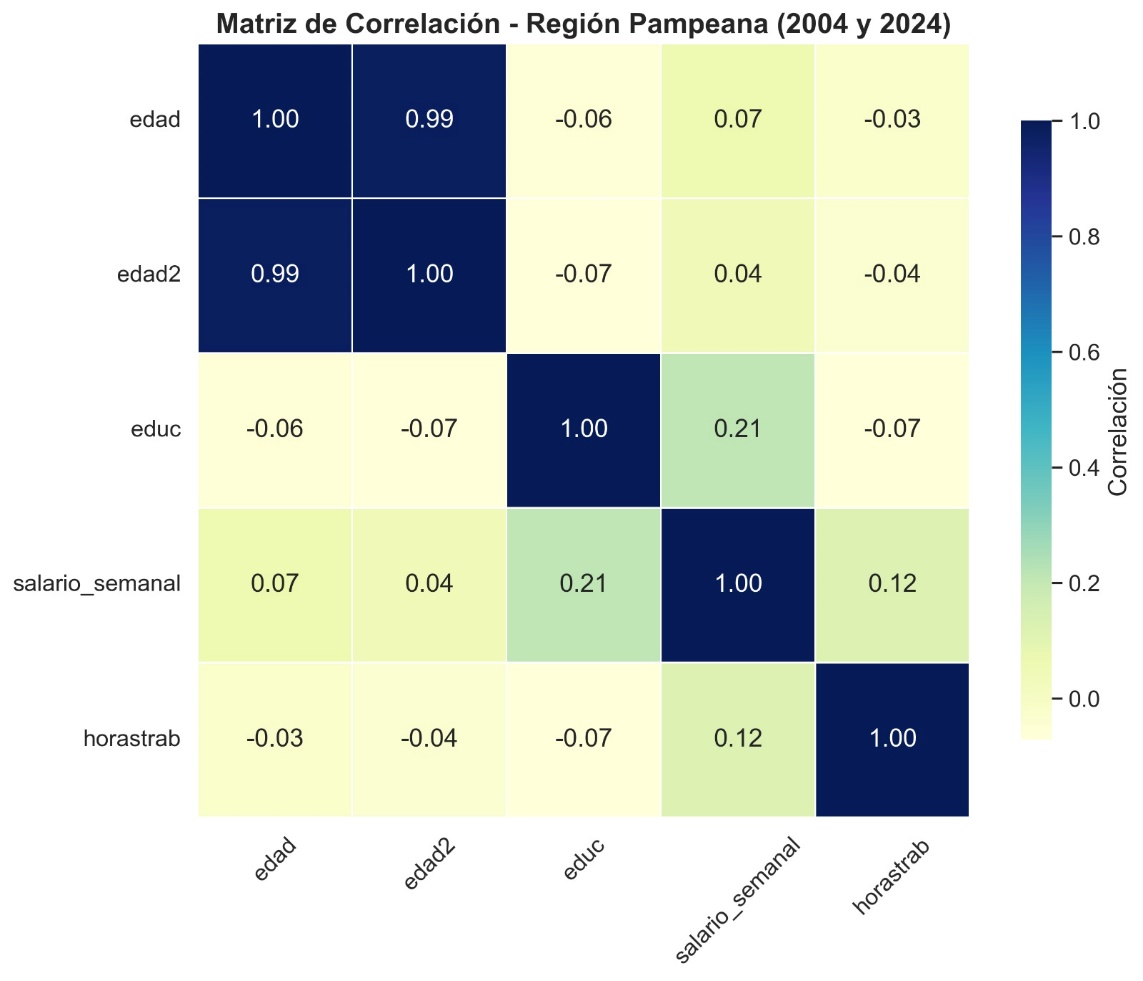
**panel b: los ocupados muestran un pico único alrededor de 5000-10000 pesos semanales , esta curva se inclina hacia la derecha hasta llegar a 30000 pesos semanales**

**5)**

****

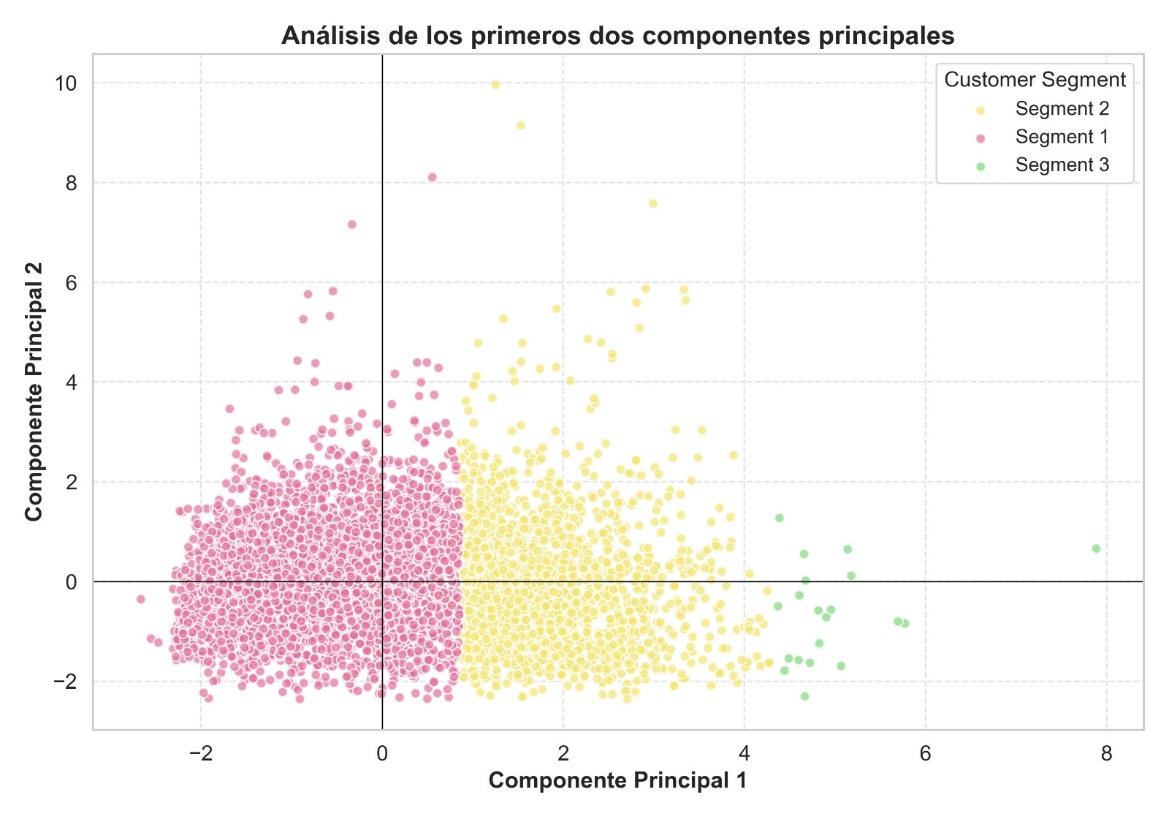
**parte II**

**1)**

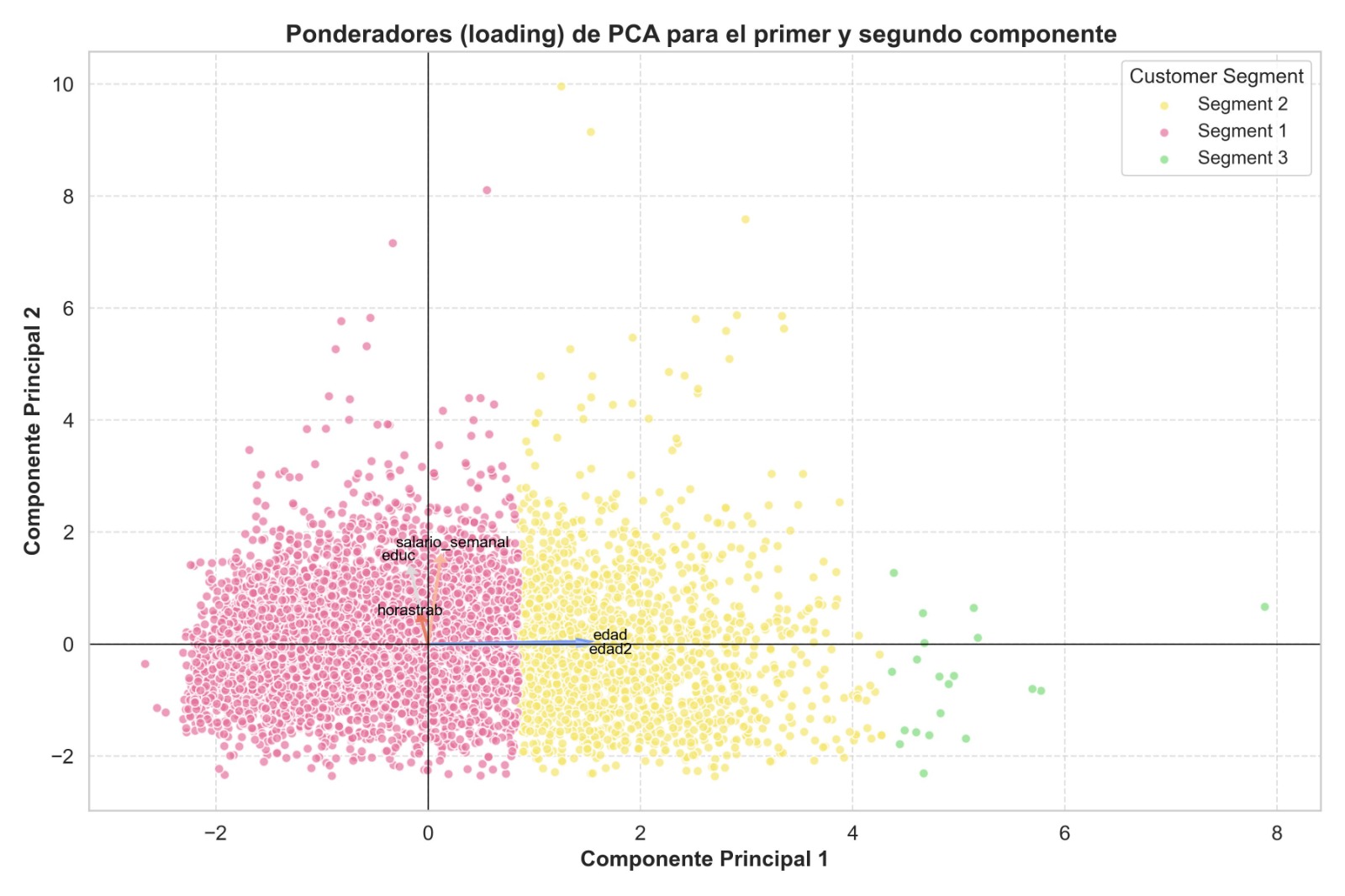
****

**El gráfico muestra cómo se relacionan entre sí variables como la edad, la educación, el salario semanal y las horas trabajadas. Lo más fuerte que se ve es la relación casi perfecta entre edad y edad², algo esperable. Después, hay una leve relación positiva entre educación y salario, lo cual tiene sentido: a mayor nivel educativo, mejor salario en promedio. En general, las demás relaciones son bastante bajas, lo que indica que no hay conexiones fuertes entre muchas de estas variables.**

**2)**

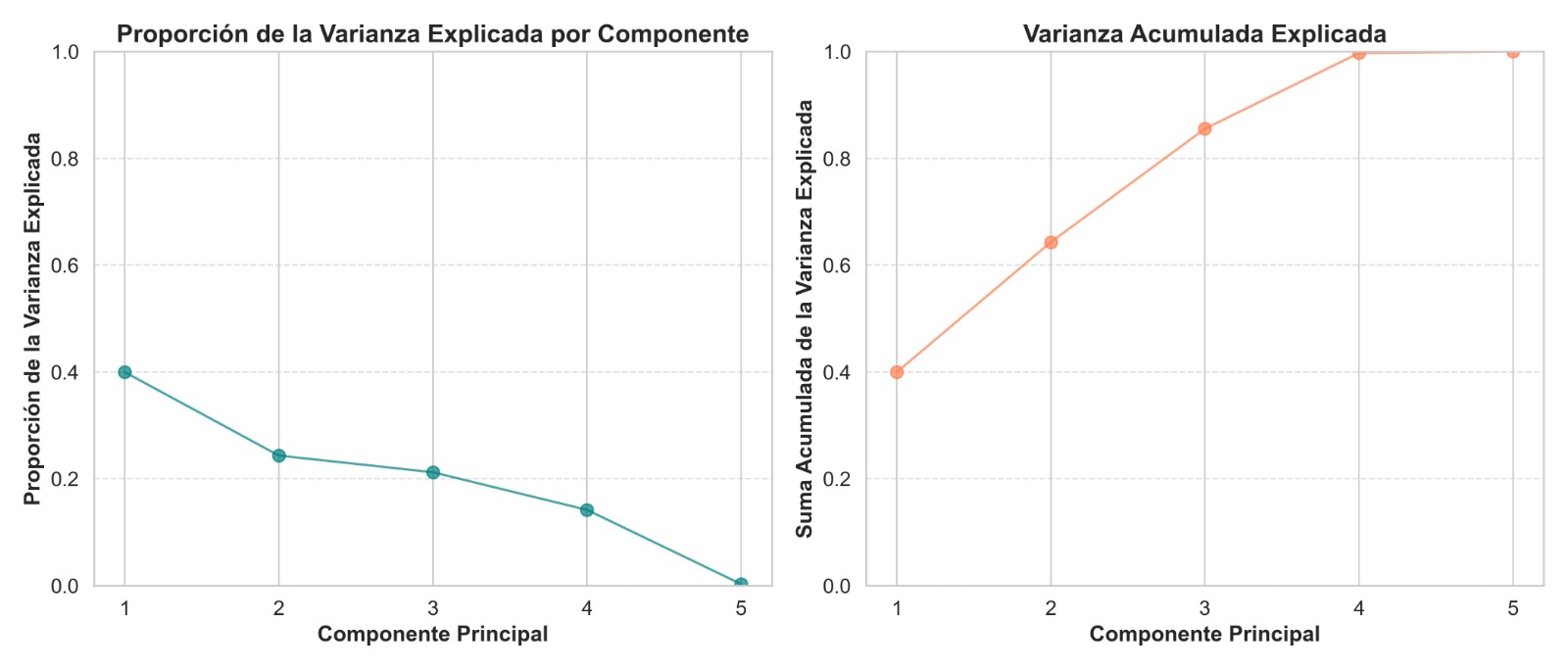


**Acá se observan los datos reducidos a dos dimensiones, usando PCA, para poder visualizarlos mejor. Cada punto representa una observación, y los colores muestran cómo se agrupan en tres segmentos. Lo interesante es que hay una separación clara entre los grupos, lo que sugiere que hay patrones o características comunes dentro de cada uno. Esto es útil, por ejemplo, para entender perfiles o hacer segmentaciones.**

**3)** 

**EL GRÁFICO MUESTRA CÓMO SE DISTRIBUYEN LOS CLIENTES EN FUNCIÓN DE LOS DOS PRIMEROS COMPONENTES PRINCIPALES DEL PCA. CADA PUNTO REPRESENTA UN CLIENTE, Y LOS COLORES (ROSADO, AMARILLO Y VERDE) REPRESENTAN LOS TRES SEGMENTOS DE CLIENTES IDENTIFICADOS. SE OBSERVA QUE LOS SEGMENTOS ESTÁN BASTANTE DIFERENCIADOS, ESPECIALMENTE EL VERDE (SEGMENTO 3), QUE ESTÁ MÁS SEPARADO. LAS ETIQUETAS COMO “SALARIO”, “EDUC” O “EDAD” INDICAN QUÉ VARIABLES INFLUYEN MÁS EN LA DIRECCIÓN DE LOS COMPONENTES. POR EJEMPLO, “SALARIO” Y “EDUC” INFLUYEN EN EL COMPONENTE 2, MIENTRAS QUE “EDAD” SE ASOCIA MÁS AL COMPONENTE 1.**

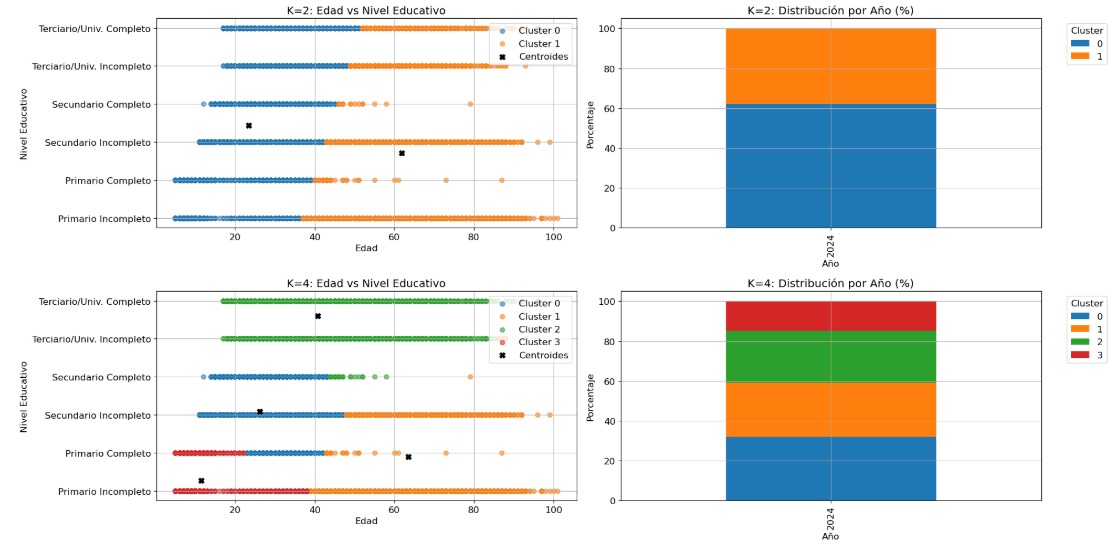
4)

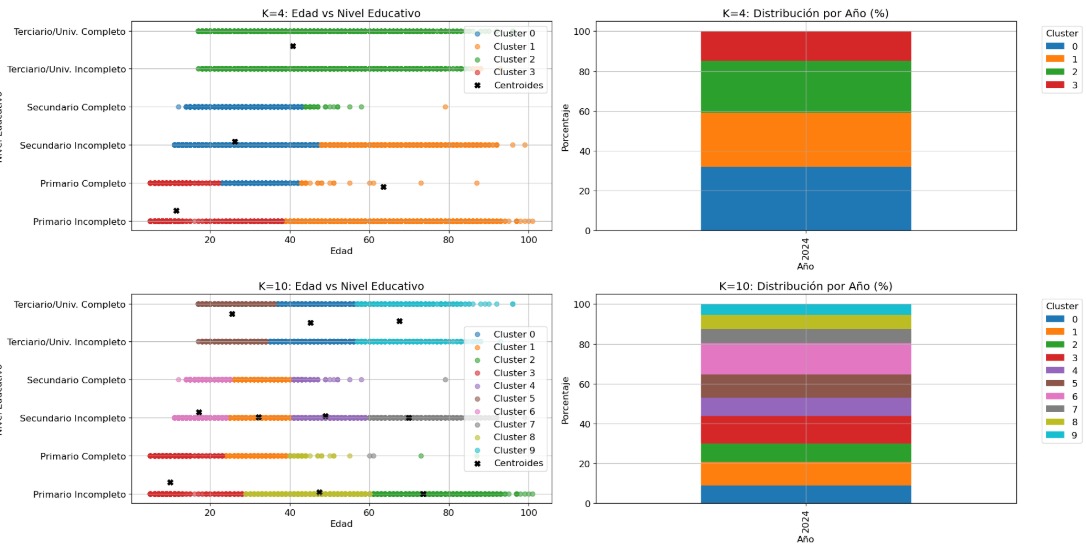


**GRAFICO A: MUESTRA QUE PROPORCION DE LA VARIANZA TOTAL DE LOS DATOS EXPLICA CADA COMPONENTE PRINCIPAL.EL COMPONENTE 1 EXPLICA ALREDEDOR DEL 40%, EL SEGUNDO CERCA DEL 25% Y LOS SIGUIENTES MUCHO MENOS. ESTO INDICA QUE LOS 2 PRIMERO COMPONENTES CAPTURAN GRAN PARTE DE LA INFORMACION**

**GRAFICO B: EL GRAFICO COMPLEMENTA AL ANTERIOR, MOSTRANDO CUANTA VARIANZA SE ACUMULAAL SUMAR COMPONENTES. VEMOS QUE CON LOS PRIMEROS 3 COMPONENTES SE ALCANZA APROX. EL 90-95% DE LA VARIANZA EXPLICADA.**

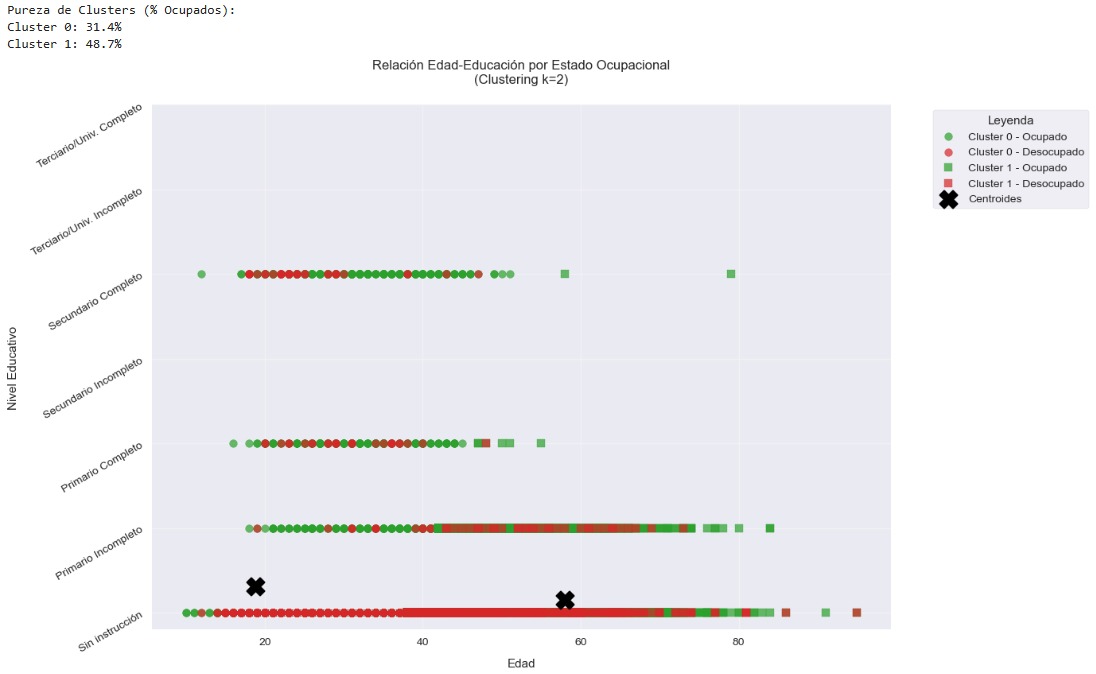
**5)**

**A**

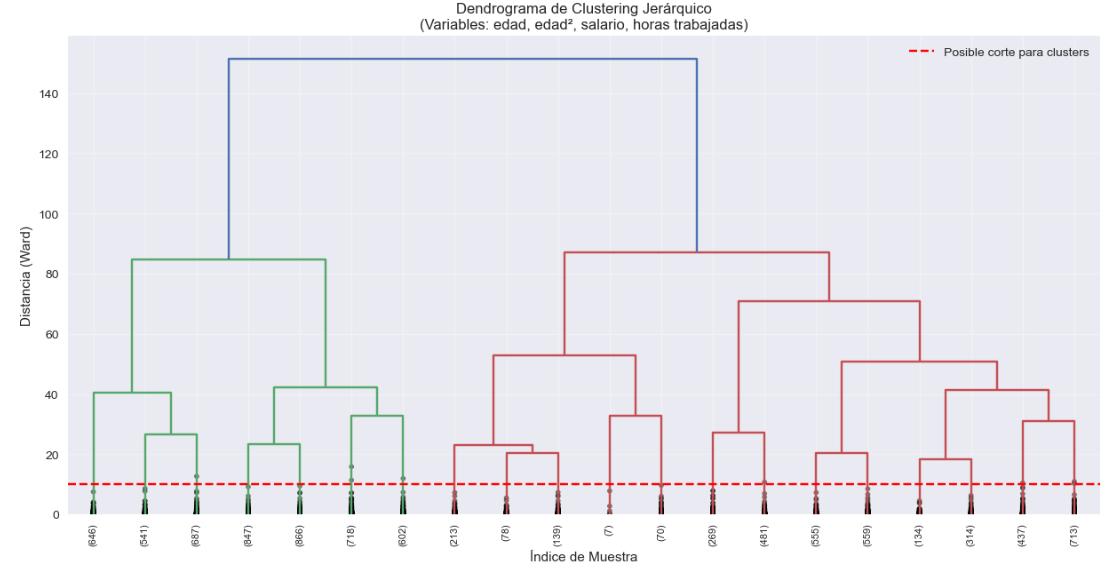
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**LOS GRAFICOS MUESTRAN QUE LOS GRUPOS FORMADOS POR EDAD Y NIVEL EDUCATIVO SON CONSISTENTES ENTRE 2004 Y 2024. EL MAYOR NUMERO DE CLUSTERS, SE OBSERVA UNA MAYOR DIFERENCIACION ENTRE EDADES MAS JOVENES CON MENOR EDUCACION Y ADULTOS CON NIVELES EDUCATIVOS MAS ALTO.**

**B)**

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**ESTE GRÁFICO MUESTRA LA RELACIÓN ENTRE EDAD, NIVEL EDUCATIVO Y ESTADO OCUPACIONAL, TRAS APLICAR UN ALGORITMO DE CLUSTERING CON K=2 GRUPOS. EN EL EJE HORIZONTAL VEMOS LA EDAD DE LAS PERSONAS, Y EN EL EJE VERTICAL, SU NIVEL EDUCATIVO (DESDE "SIN INSTRUCCIÓN" HASTA "TERCIARIO/UNIV. COMPLETO"). LOS COLORES INDICAN TANTO EL CLUSTER ASIGNADO COMO SI LA PERSONA ESTÁ OCUPADA O DESOCUPADA: VERDE Y ROJO PARA EL CLÚSTER 0, MARRÓN Y ROSA PARA EL CLÚSTER 1.**

**6) **

**DENDOGRAMA: ES UN DIAGRAMA EN FORMA DE ARBOL UTILIZADO EN ANALISIS DE CLUSTERS PARA MOSTRAR LA ORGANIZACIÓN JERAQUICA DE LOS DATOS. CADA RAMA REPRESENTA COMO LOS DATOS SE AGRUPAN.**