

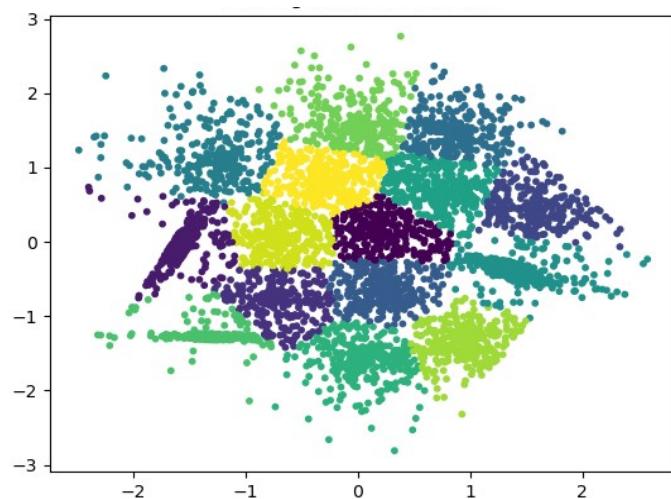
UNIVERSIDAD POLITECNICA DE VICTORIA

INTELIGENCIA DE NEGOCIOS

DR. MARIO GARZA FABRE

PROYECTO UNIDAD 3

CLUSTERING



INTEGRANTES:

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NORBERTO III MORALES AVITIA

JUNIO DE 2018

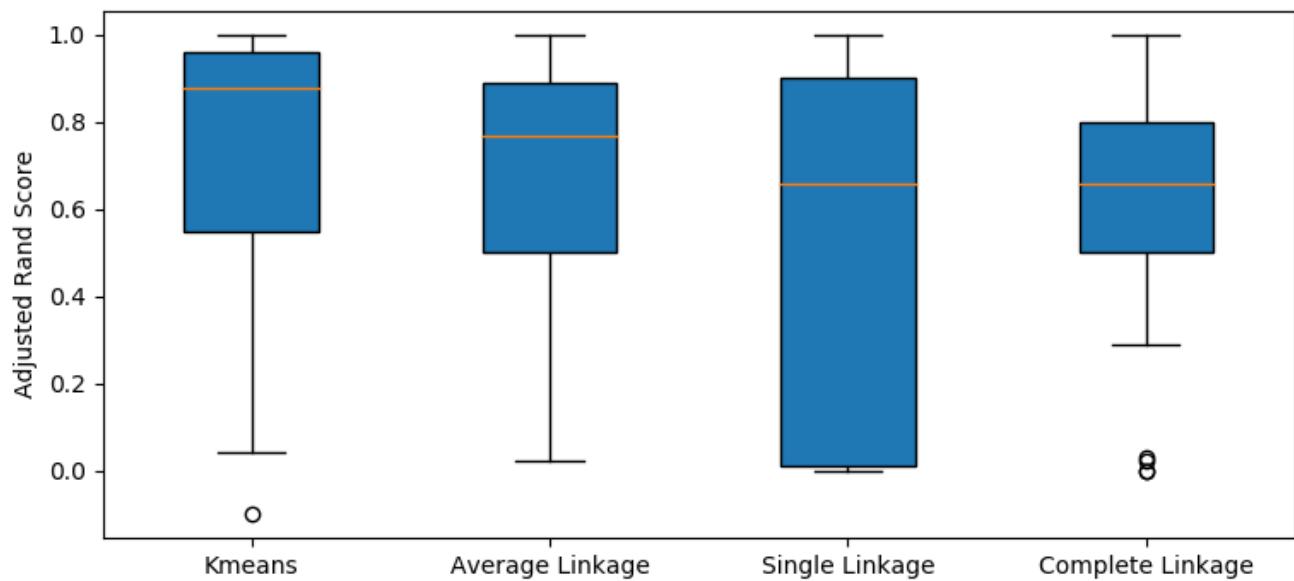
Tabla de Resultados.

Tabla que muestra los resultados de Adjusted Rand Score para cada algoritmo aplicado a los diferentes datasets.

Dataset	k-Means	Average Linkage	Single Linkage	Complete Linkage
Aggregation	0.73	0.99	0.81	0.93
Compound	0.56	0.8	0.76	0.72
D31	0.96	0.93	0.15	0.87
Flame	0.43	0.36	0.01	0.29
Glass	0.15	0.02	0.01	0.03
Iris	0.62	0.56	0.56	0.57
Jain	0.55	0.51	0.01	0.51
Long3	1.0	1.0	1.0	0.0
Pathbased	0.48	0.47	0.0	0.39
R15	0.99	0.99	0.54	0.98
S4	0.63	0.5	0.0	0.5
Smile	0.54	0.63	1.0	0.54
Spiral2	0.04	0.02	1.0	0.02
Spiral3	-0.1	0.02	1.0	0.0
Tevc1	0.94	0.77	0.31	0.63
Tevc2	0.93	0.38	0.0	0.52
Triangle	0.95	0.98	0.0	0.66
UKC1	1.0	0.87	1.0	0.87
UKC2	0.98	0.81	0.89	0.79
UKC3	0.89	0.89	0.9	0.8
UKC4	1.0	1.0	1.0	1.0
UKC5	0.84	0.8	0.78	0.79
UKC6	0.95	0.75	0.76	0.77
UKC7	0.97	0.88	0.66	0.8
UKC8	0.88	0.76	0.41	0.78

Estadísticas.

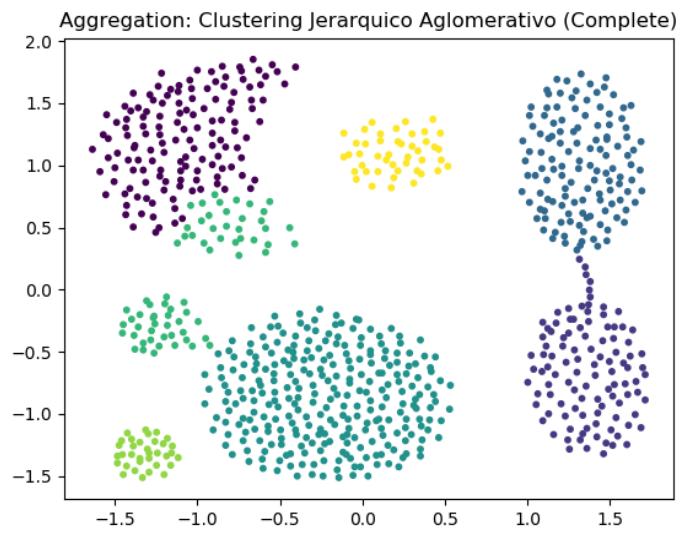
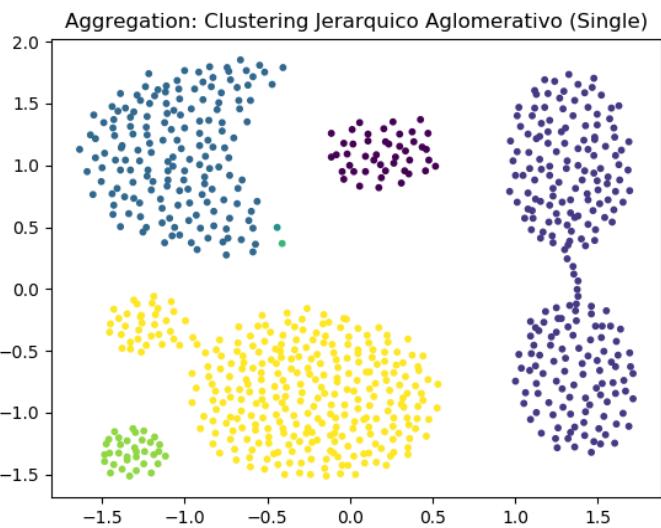
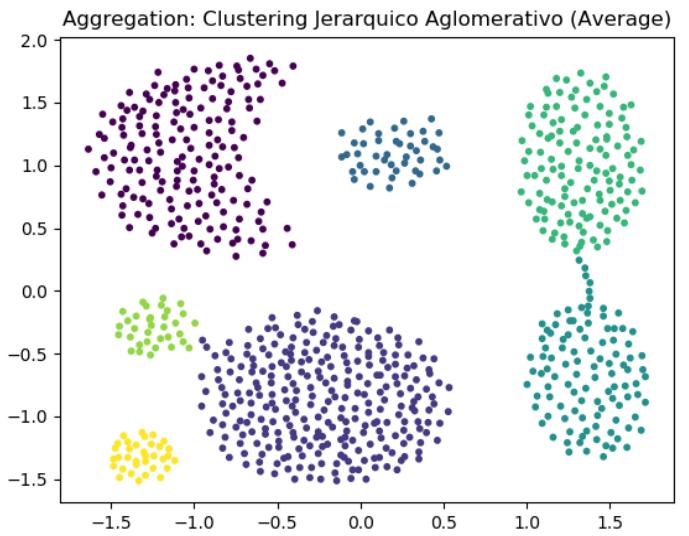
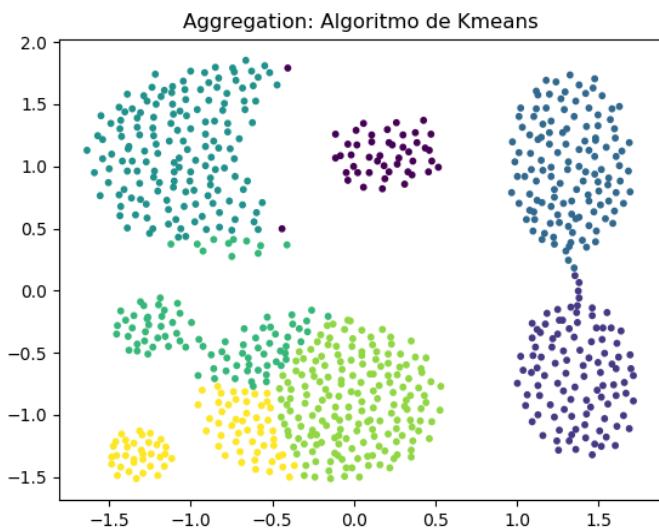
Grafica de cajas el cual muestra el desempeño general de cada algoritmo de acuerdo al valor de “ARI (Adjusted Rand Score) ” en los diferentes conjuntos de datos de prueba.



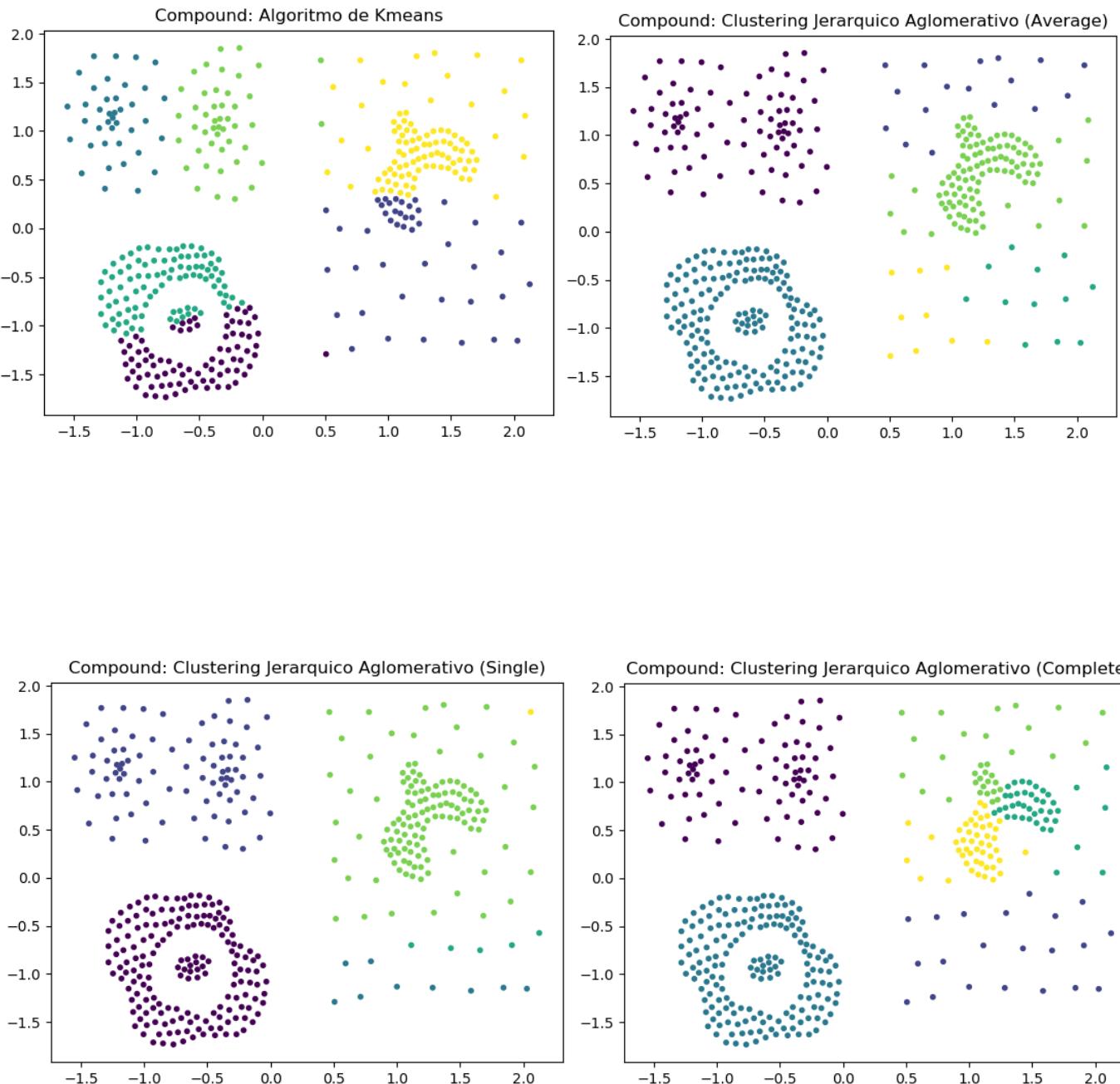
Visualizacion de Resultados.

A continuacion se mostraran las graficas de kmeans, linkage average, single y complete que se generaron con cada uno de los datasets con dimension = 2.

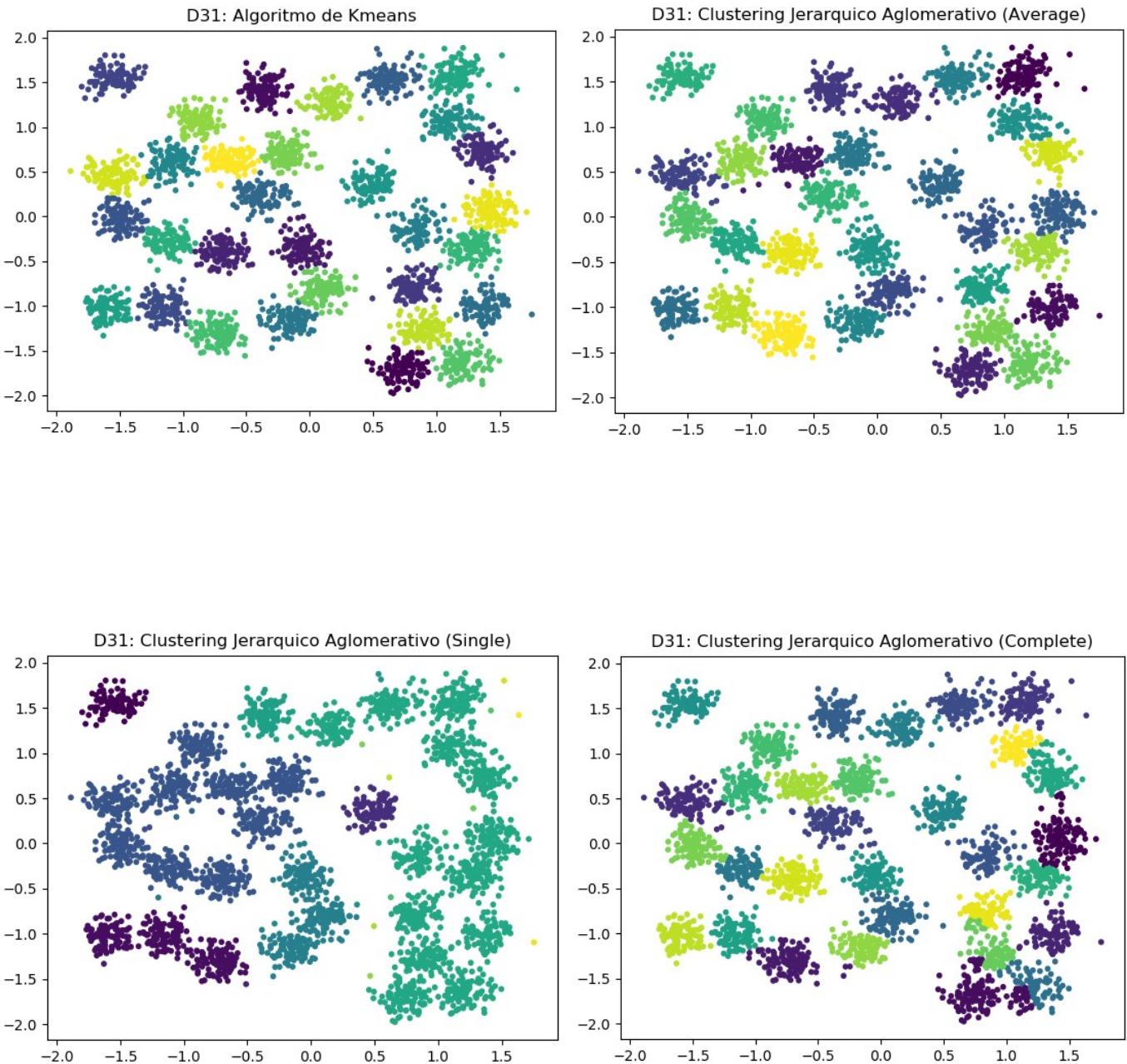
Algoritmos aplicados al dataset “Aggregation”



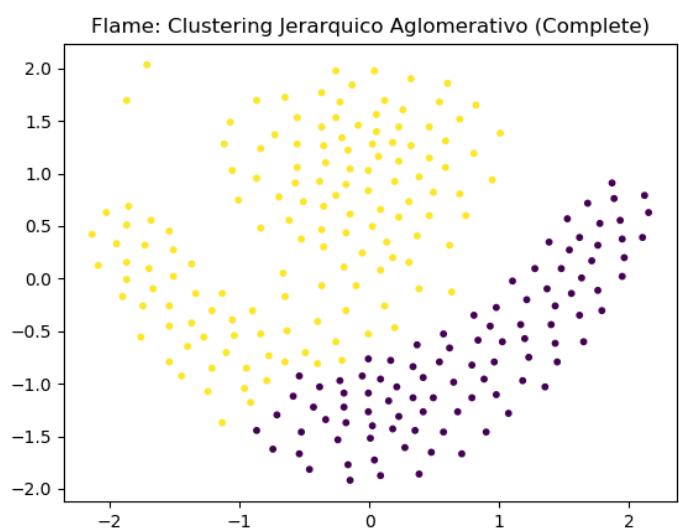
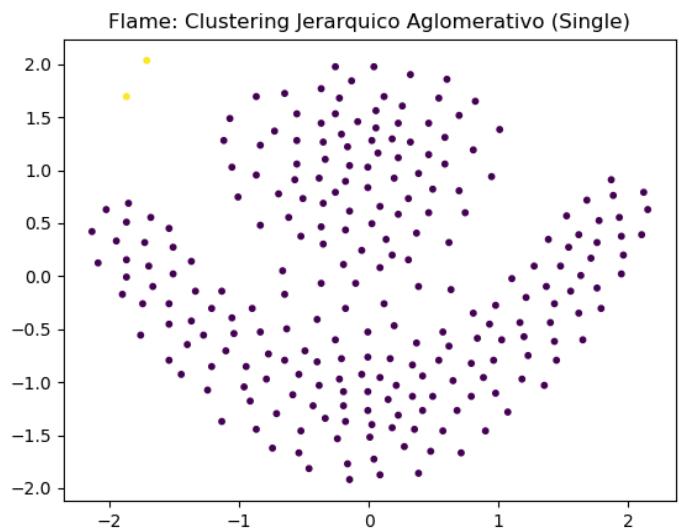
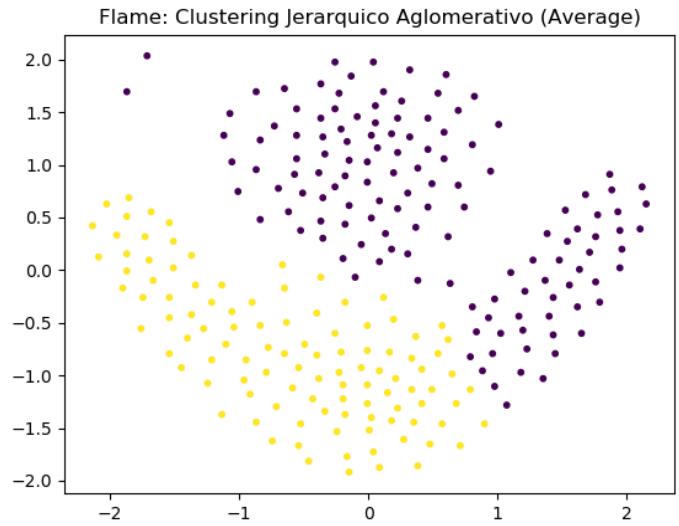
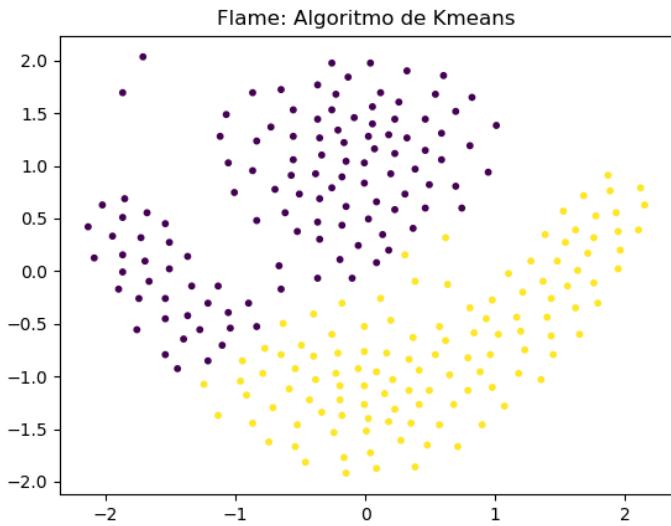
Algoritmos aplicados al dataset “Compound”



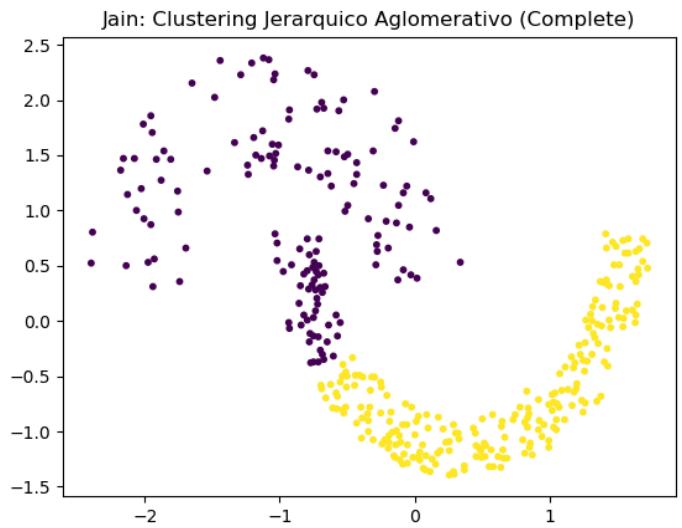
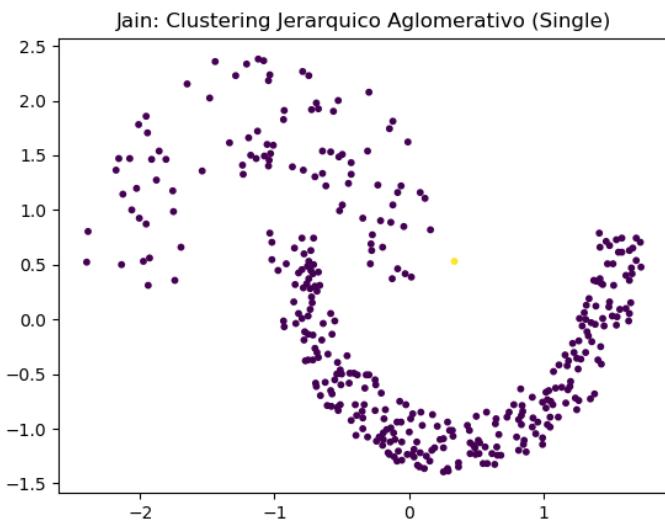
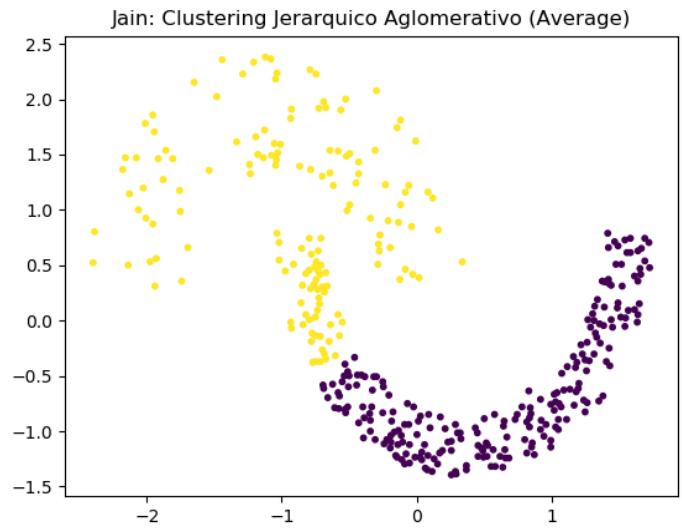
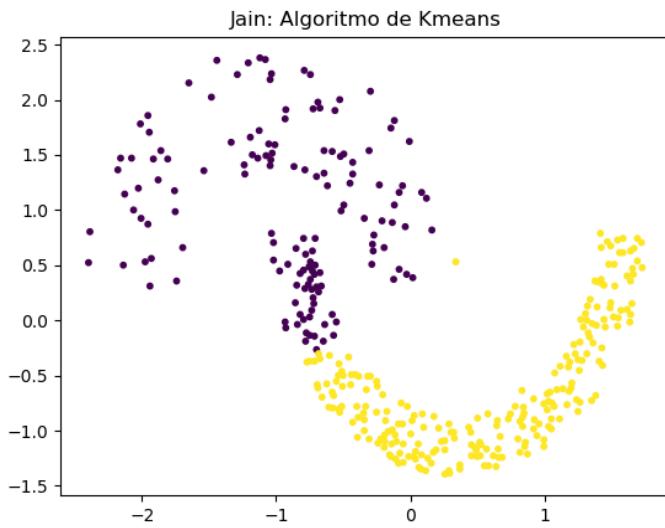
Algoritmos aplicados al dataset “D31”



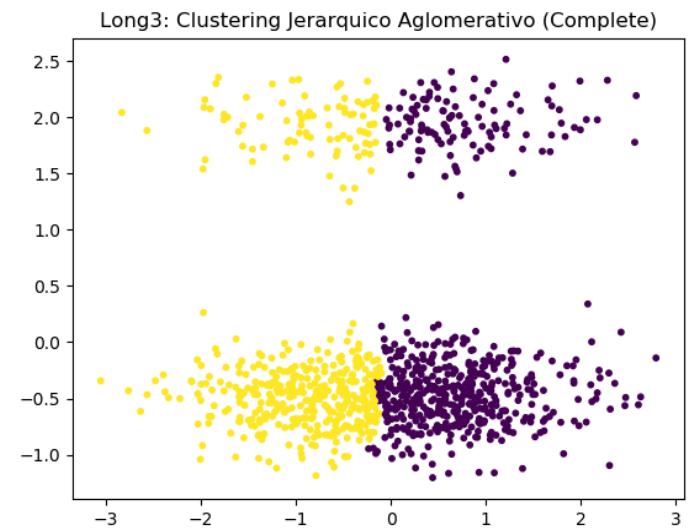
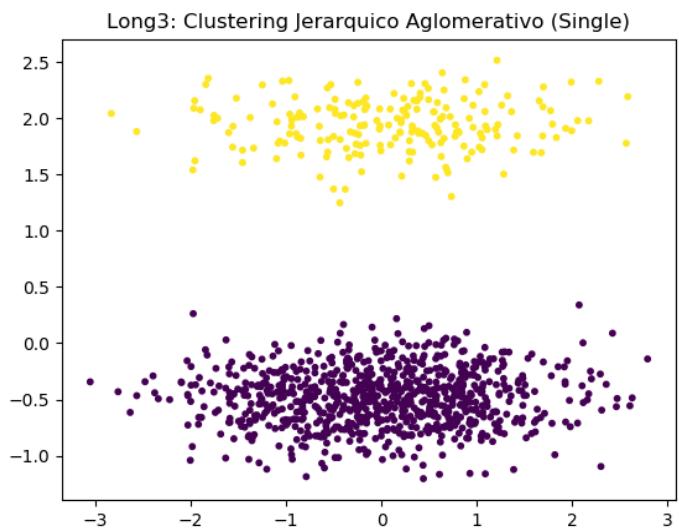
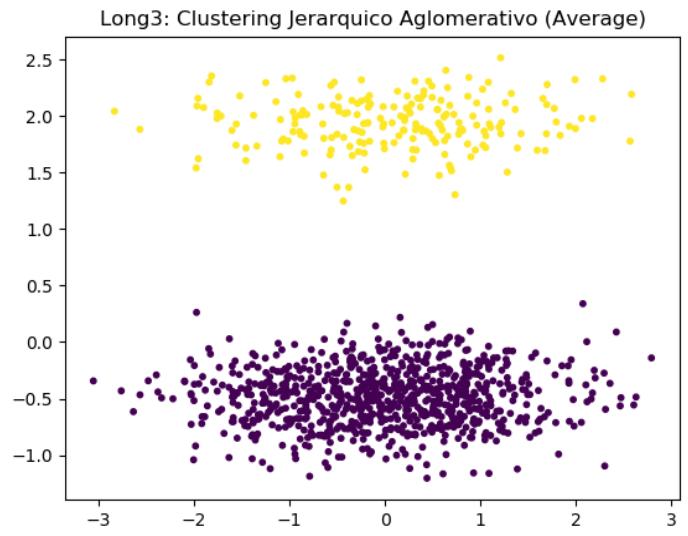
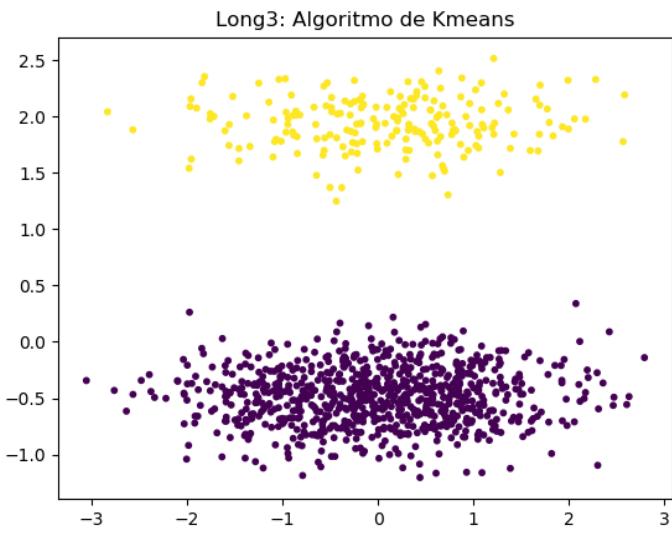
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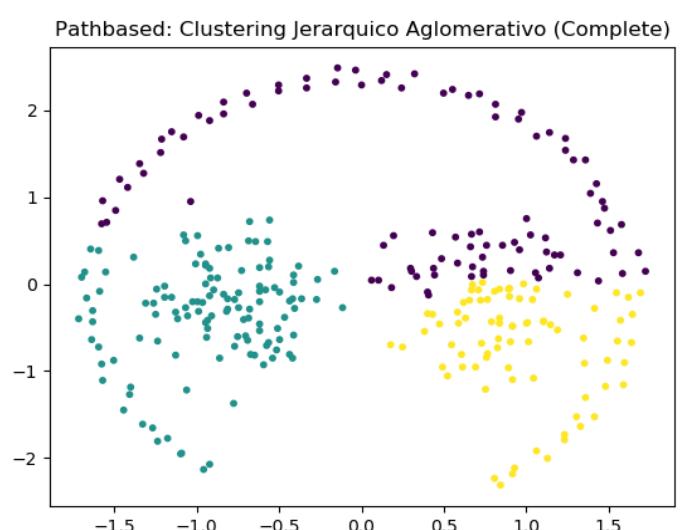
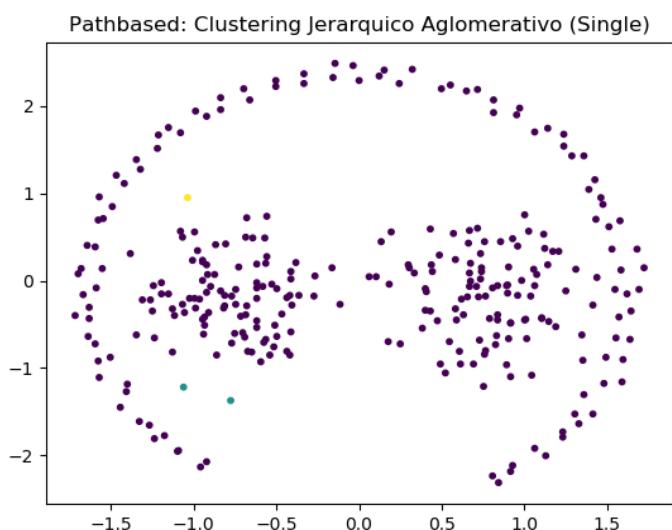
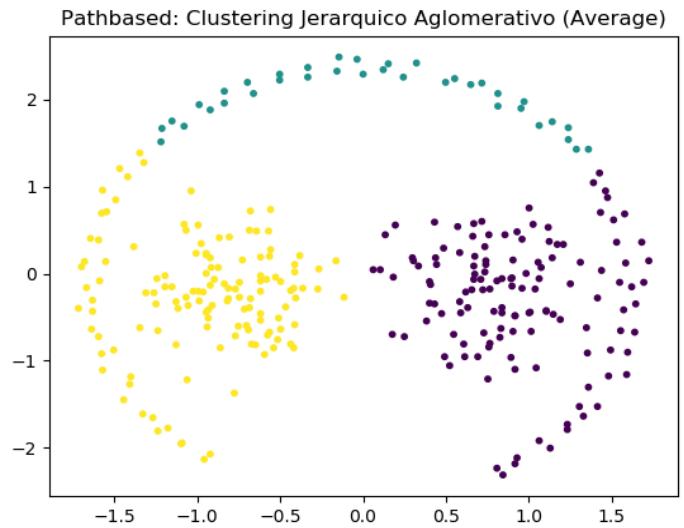
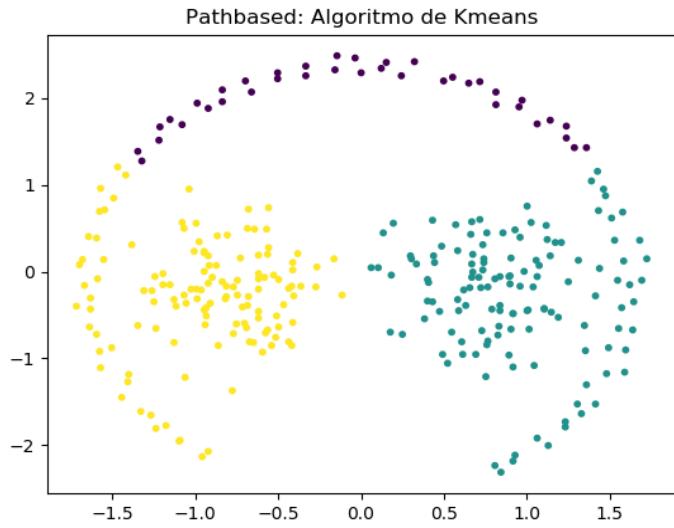
Algoritmos aplicados al dataset “Jain”



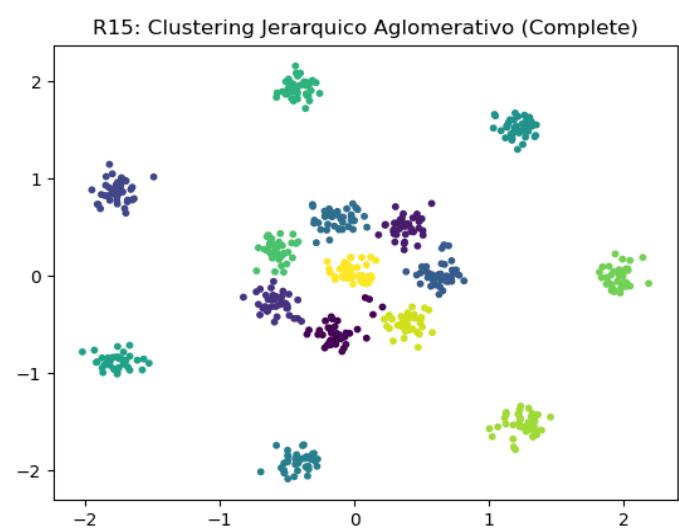
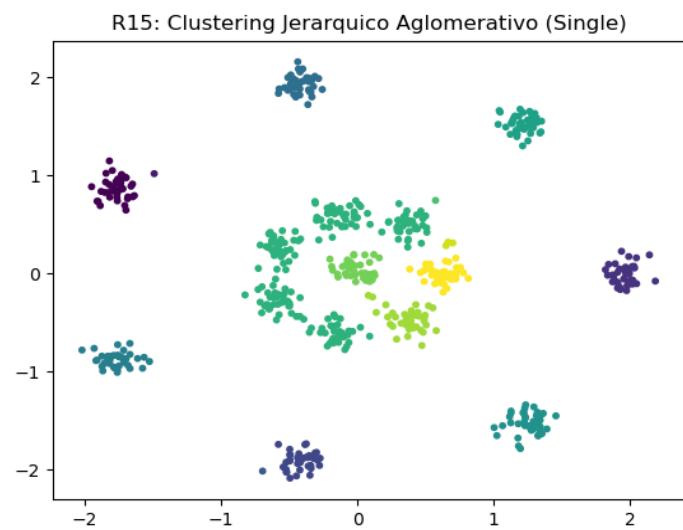
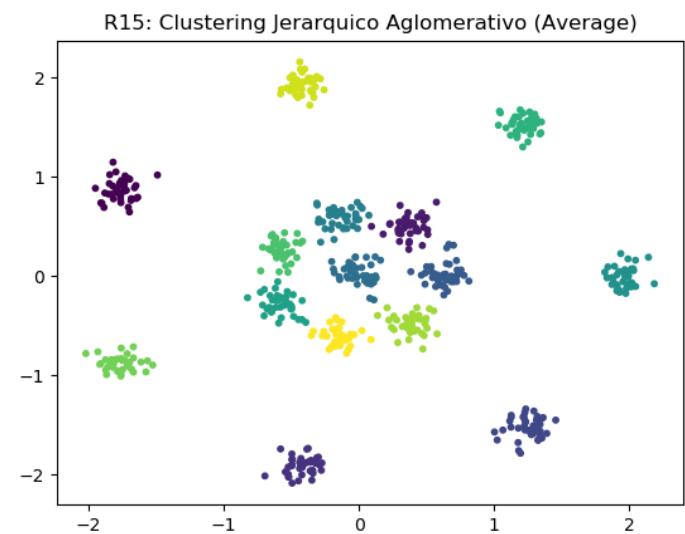
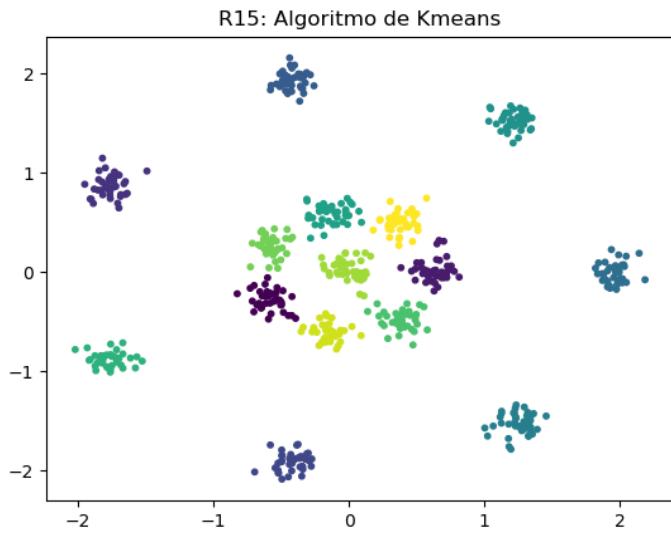
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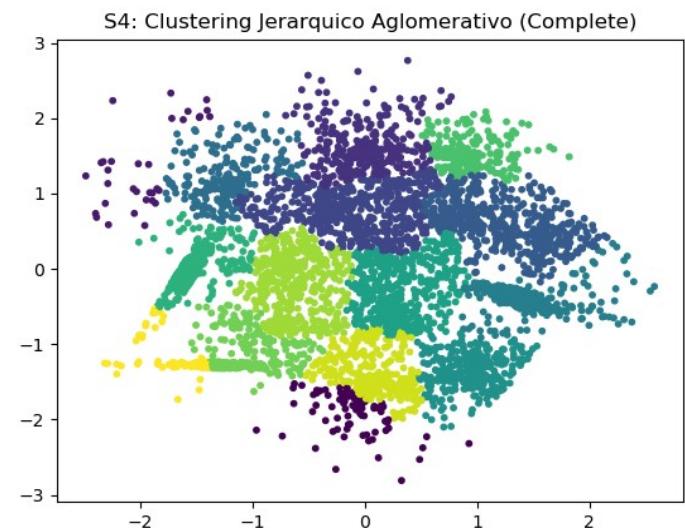
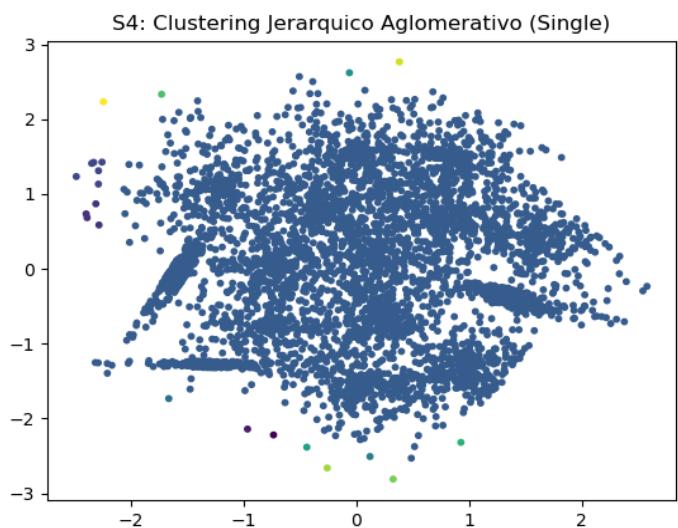
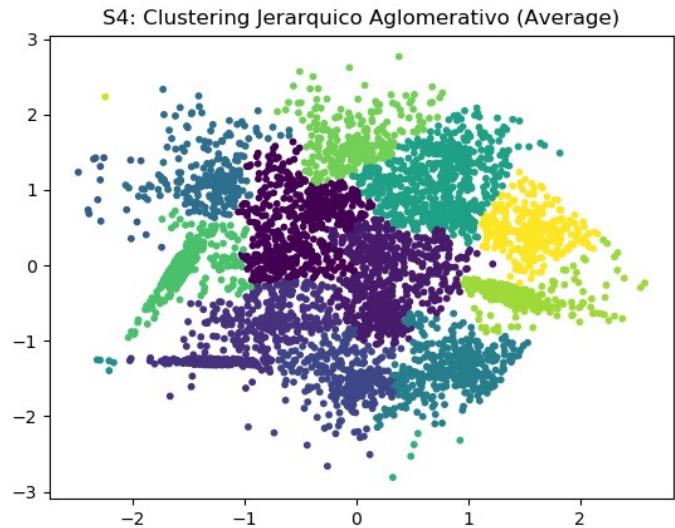
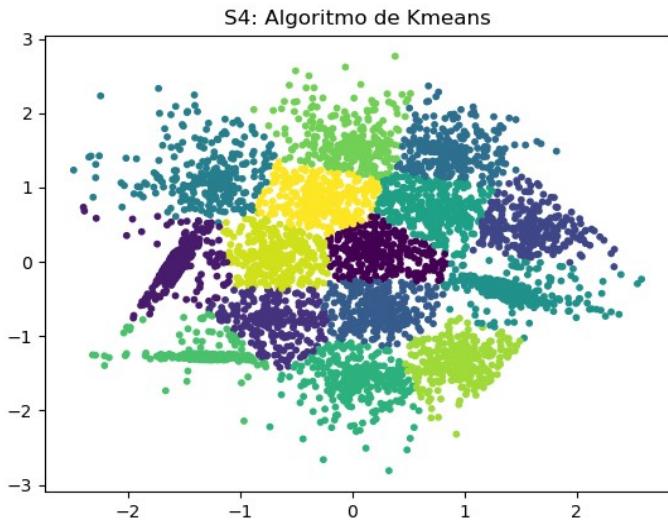
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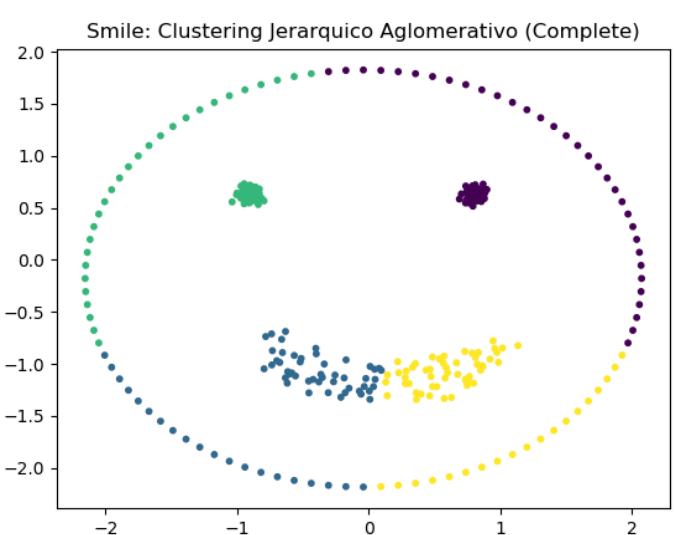
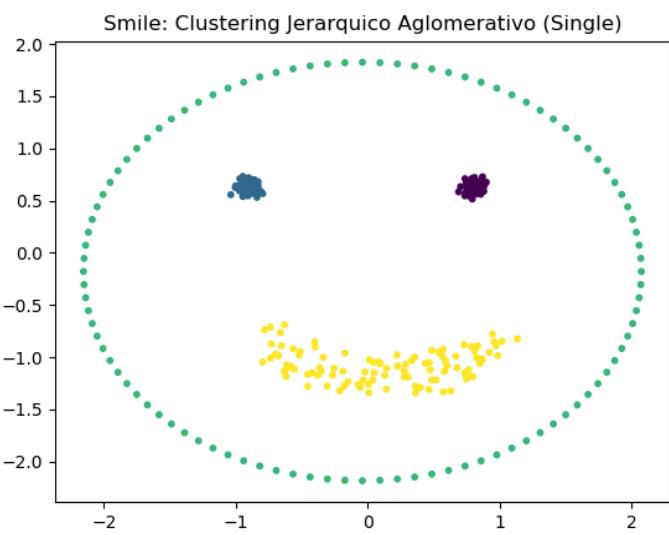
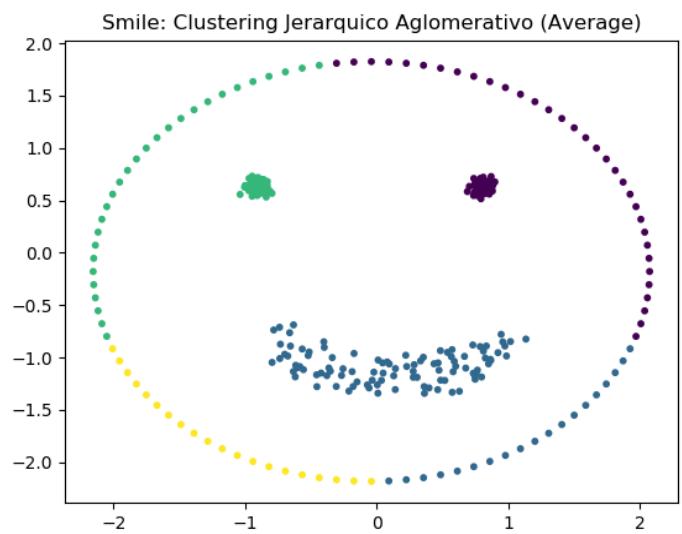
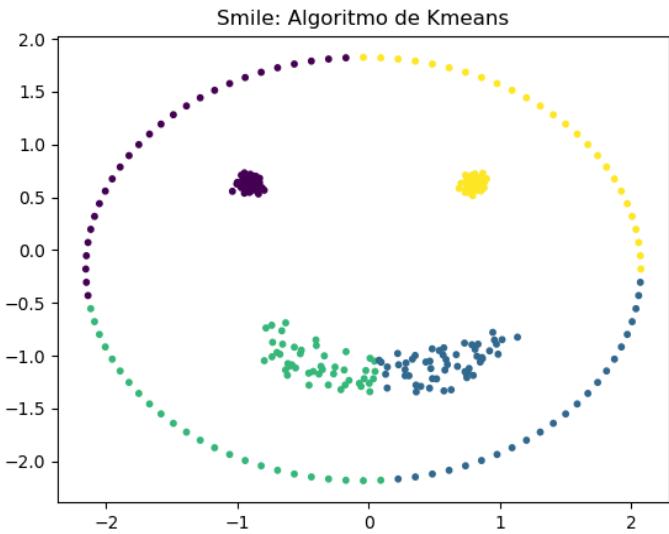
Algoritmos aplicados al dataset “R15”



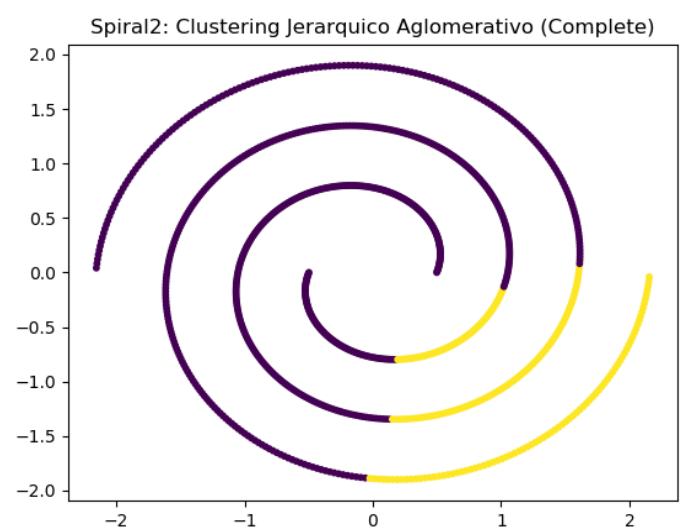
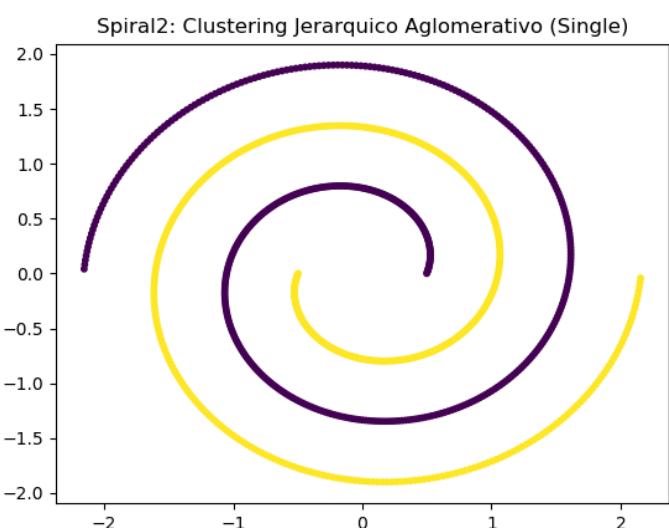
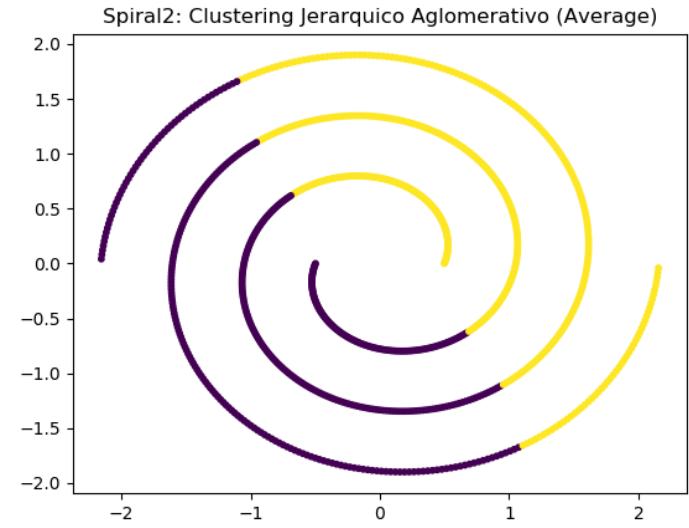
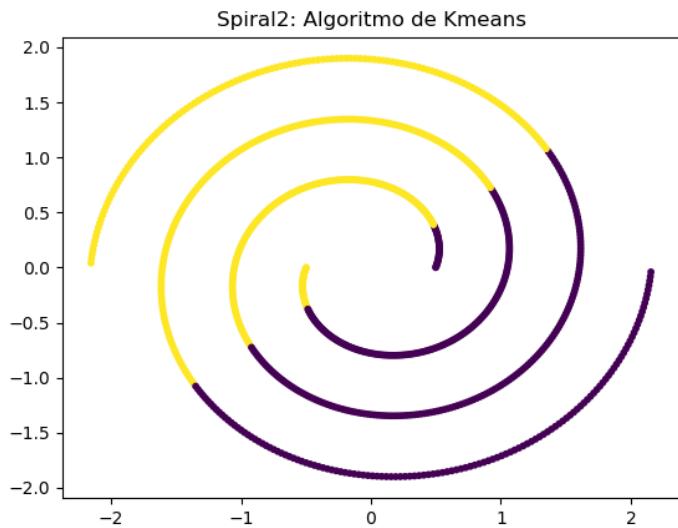
Algoritmos aplicados al dataset “S4”



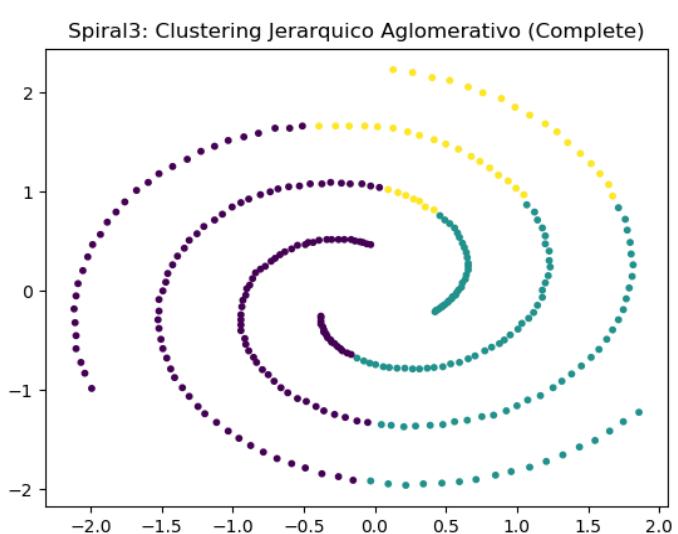
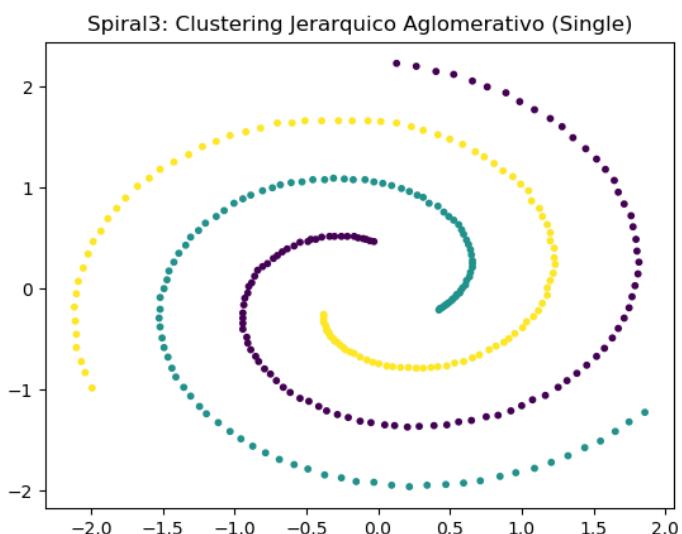
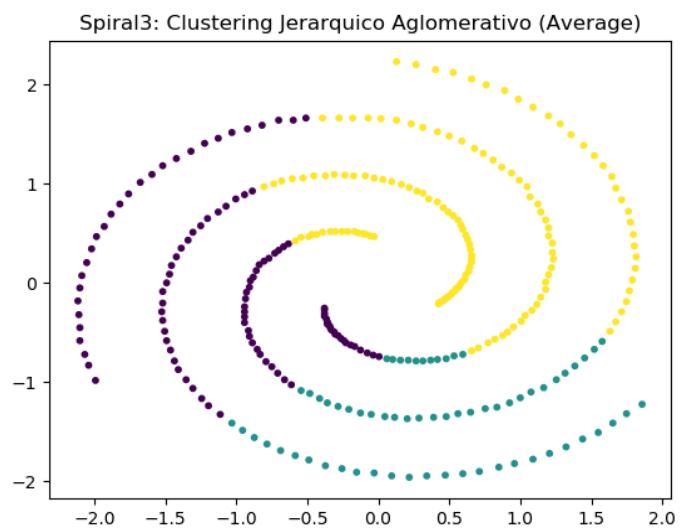
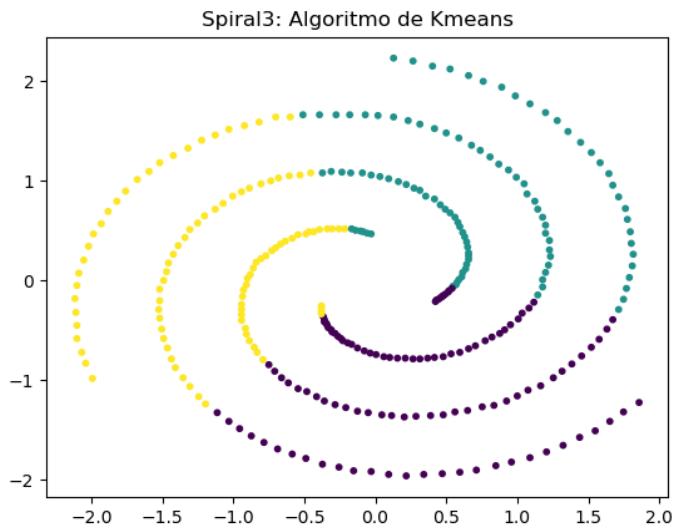
Algoritmos aplicados al dataset “Smile”



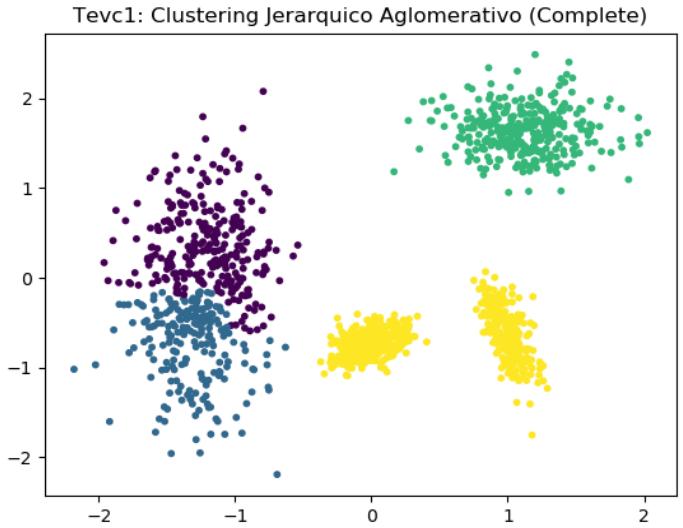
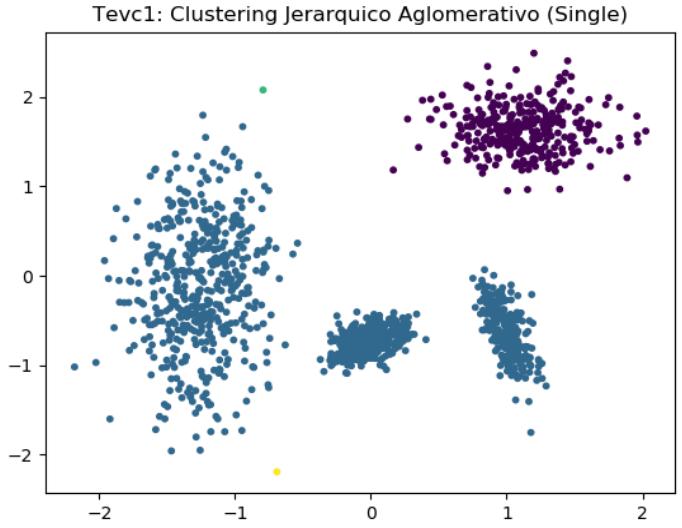
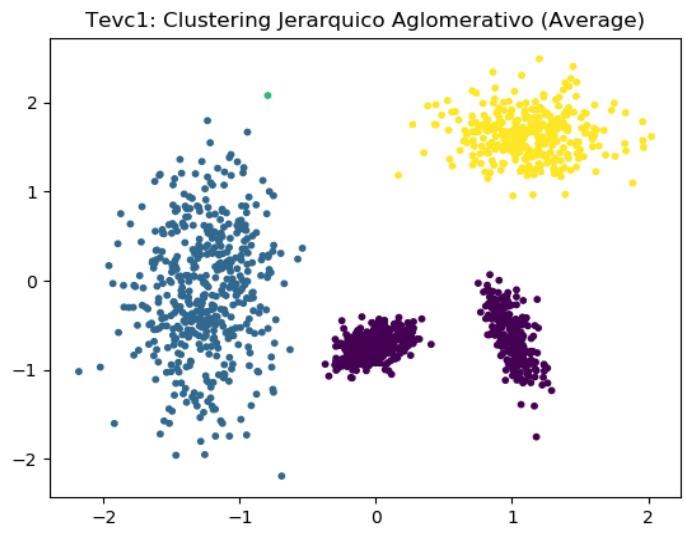
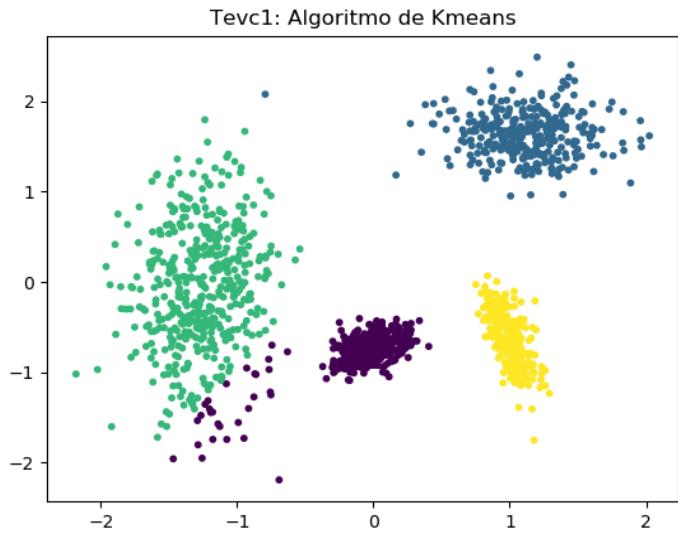
Algoritmos aplicados al dataset “Spiral2”



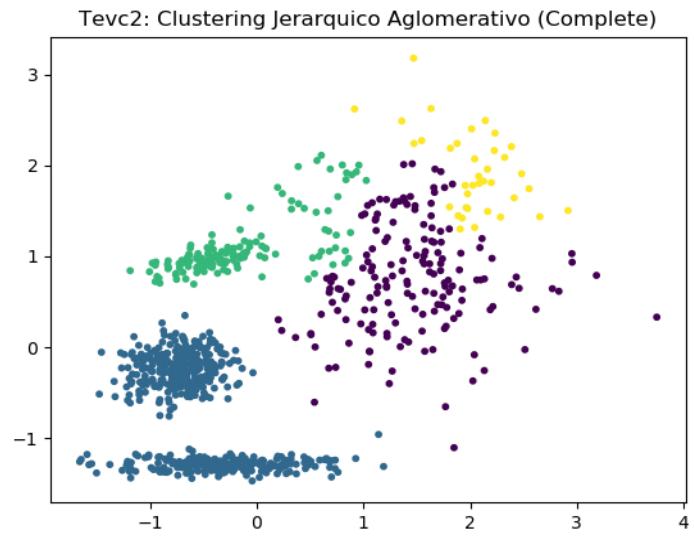
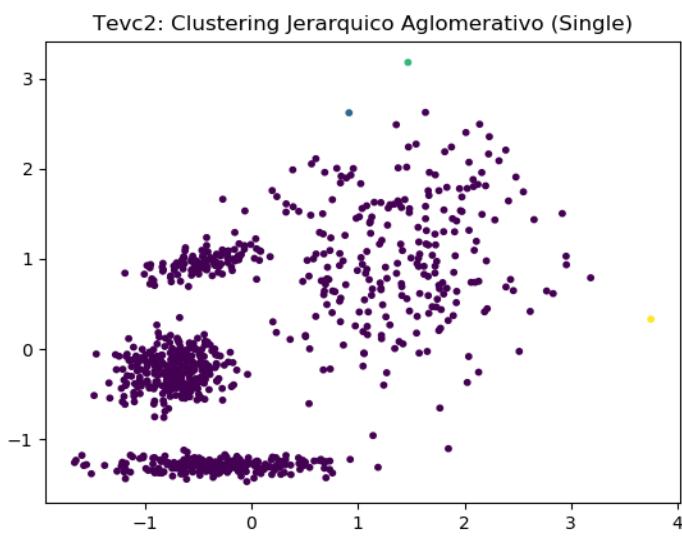
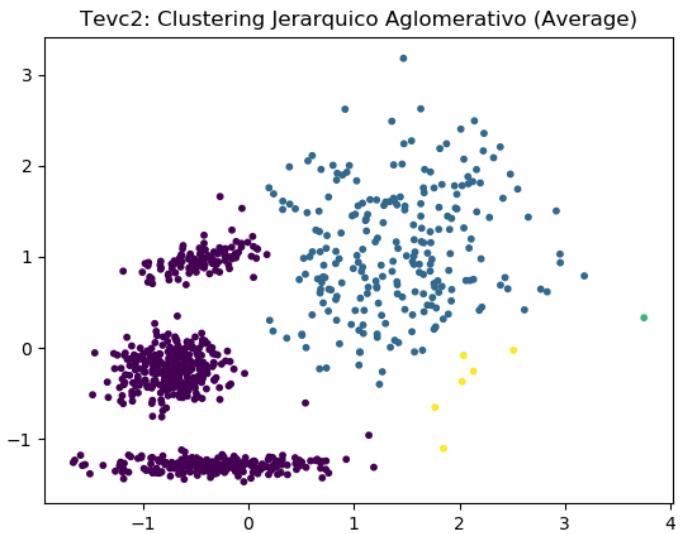
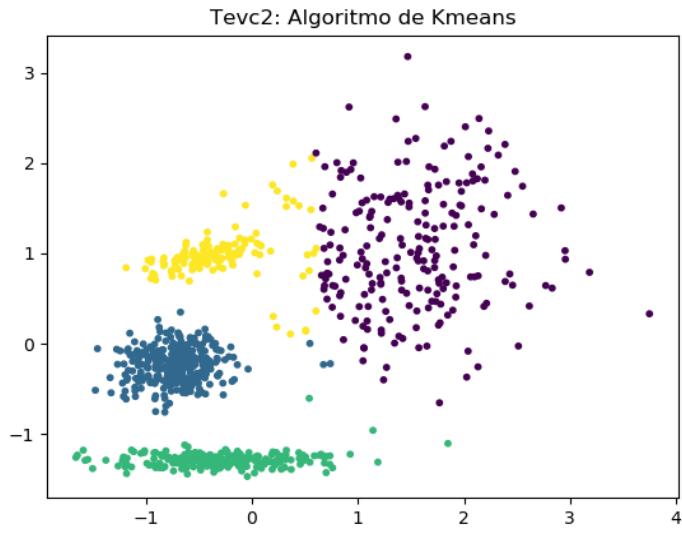
Algoritmos aplicados al dataset “Spiral3”



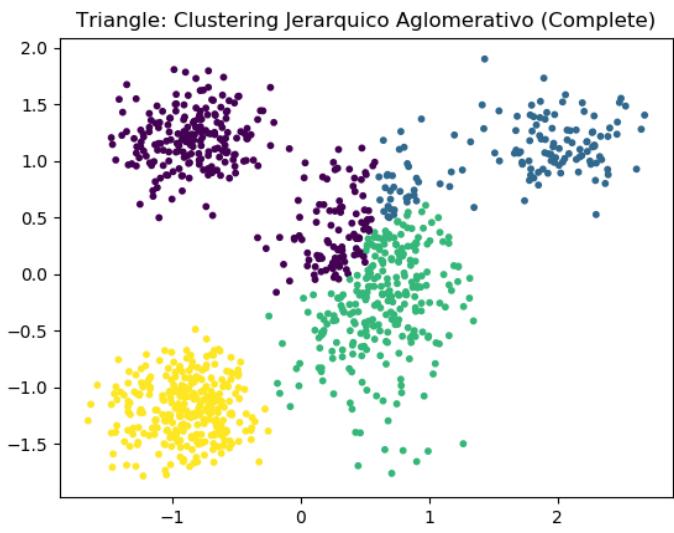
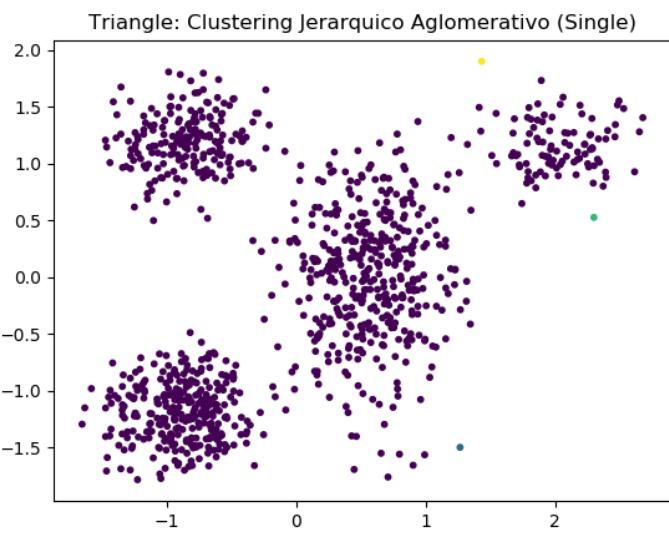
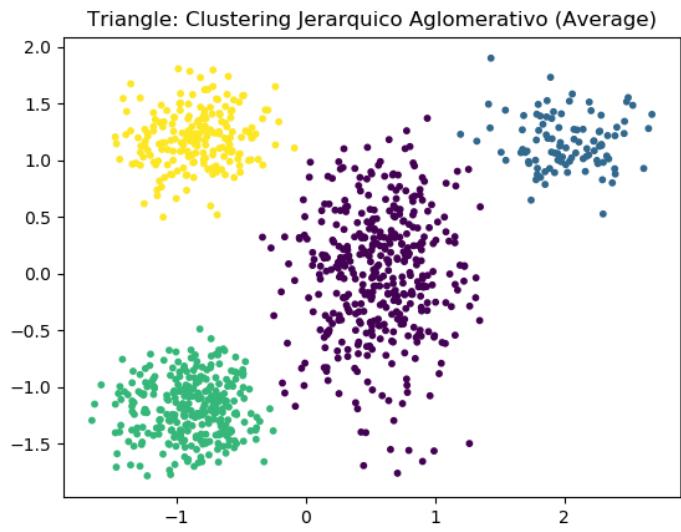
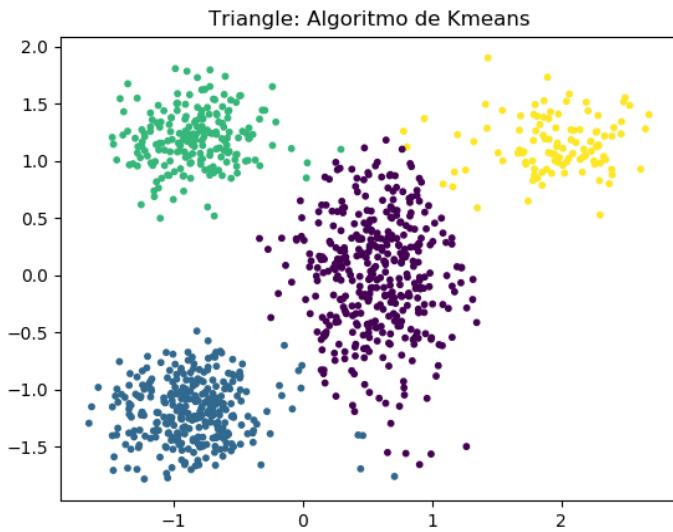
Algoritmos aplicados al dataset “Tevc1”



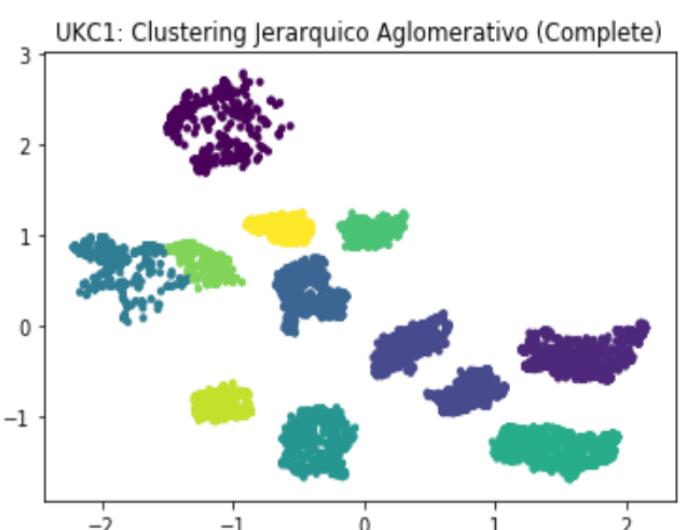
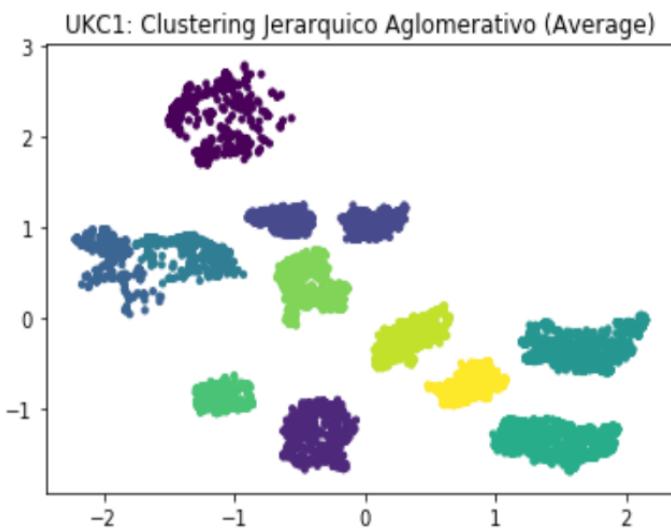
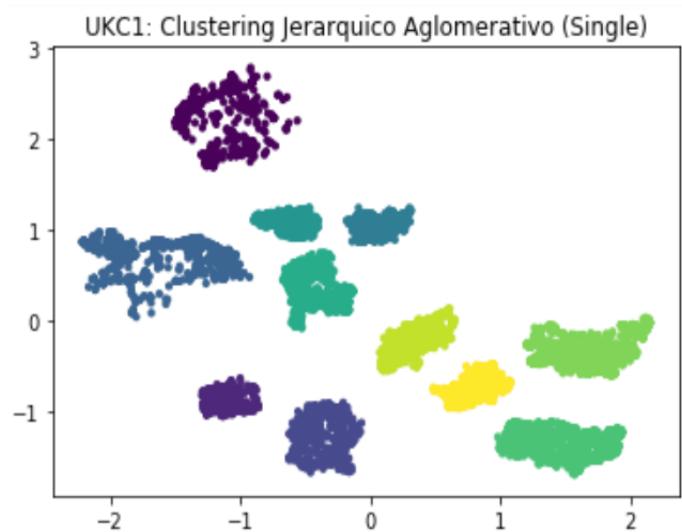
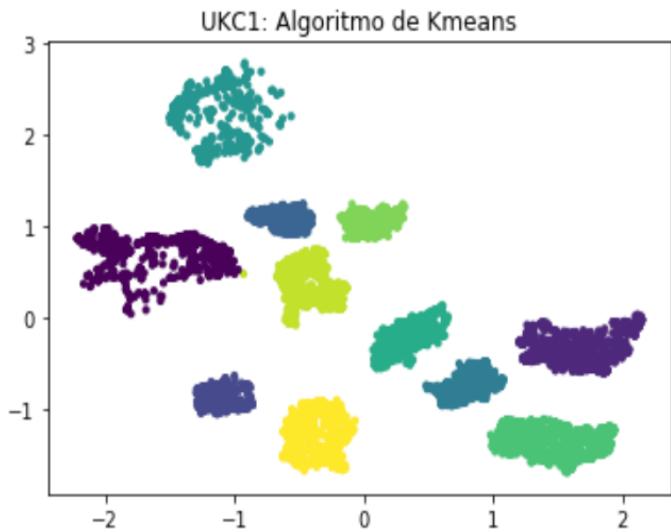
Algoritmos aplicados al dataset “Tevc2”



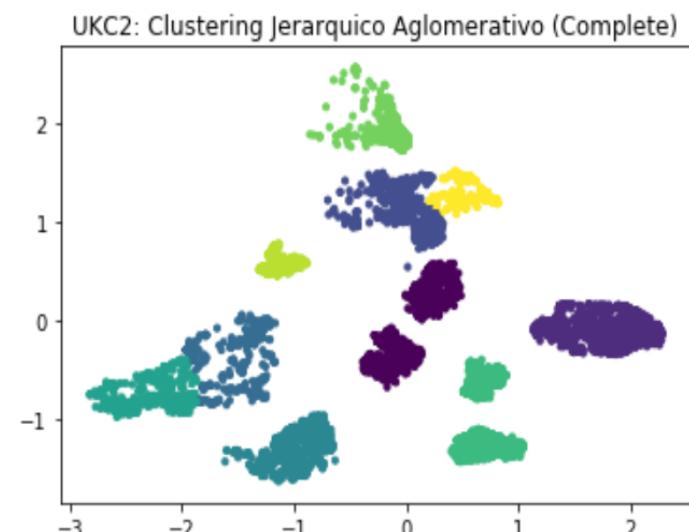
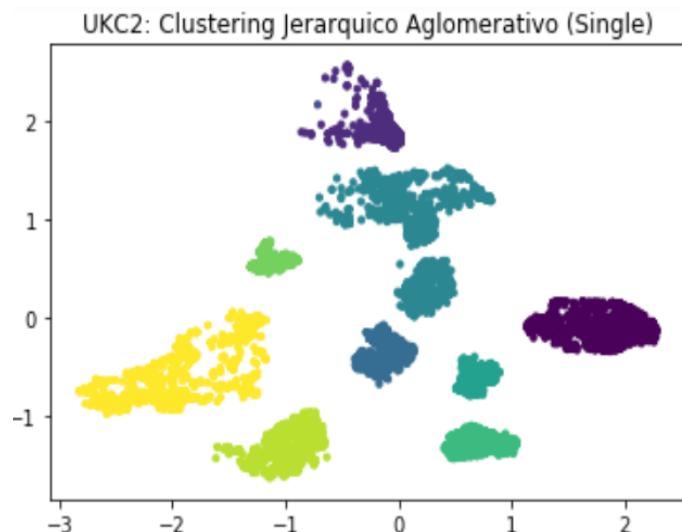
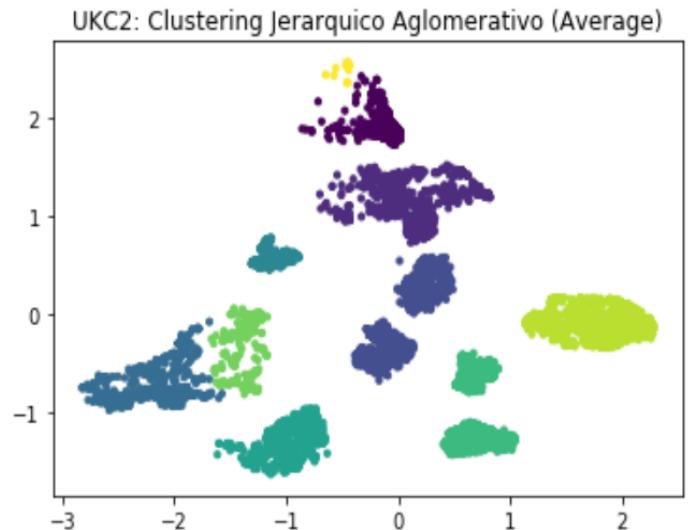
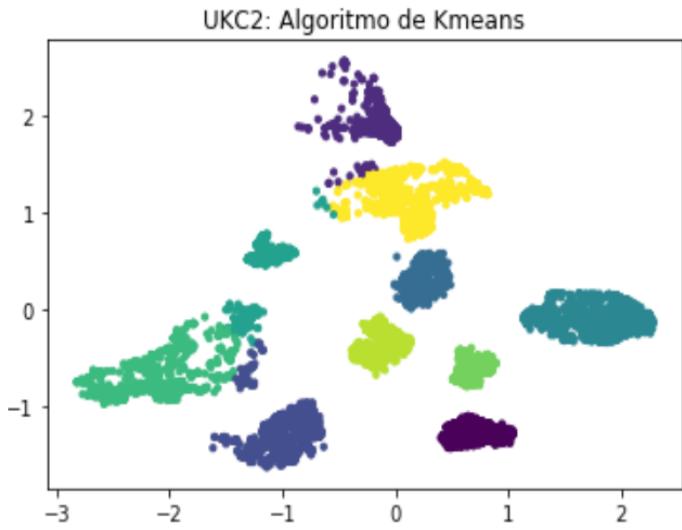
Algoritmos aplicados al dataset “Triangle”



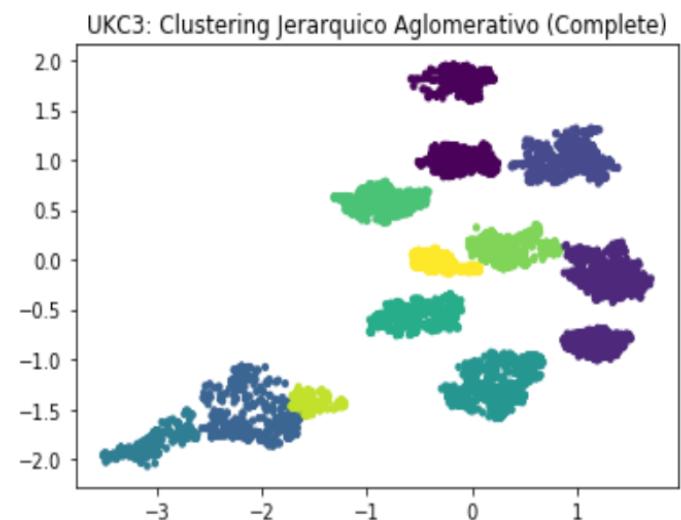
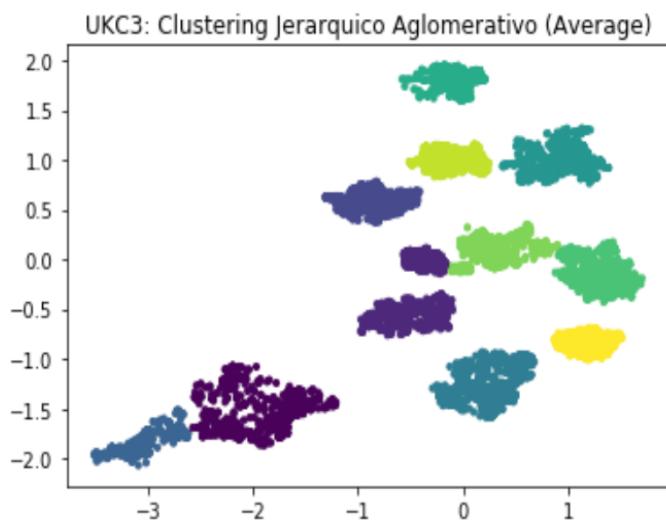
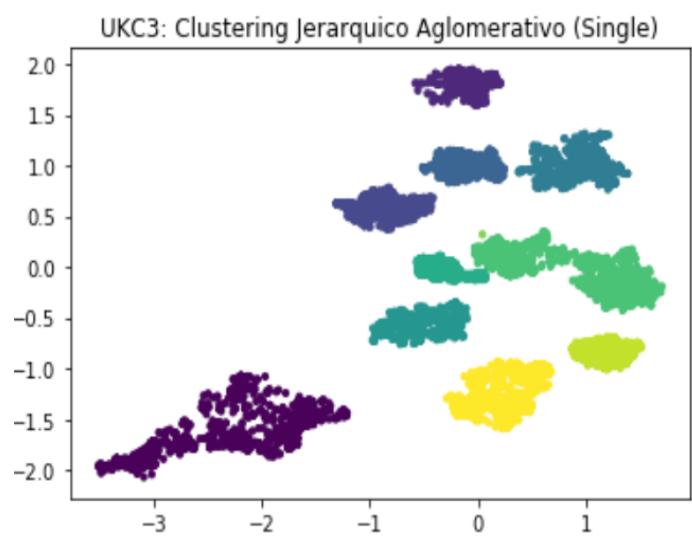
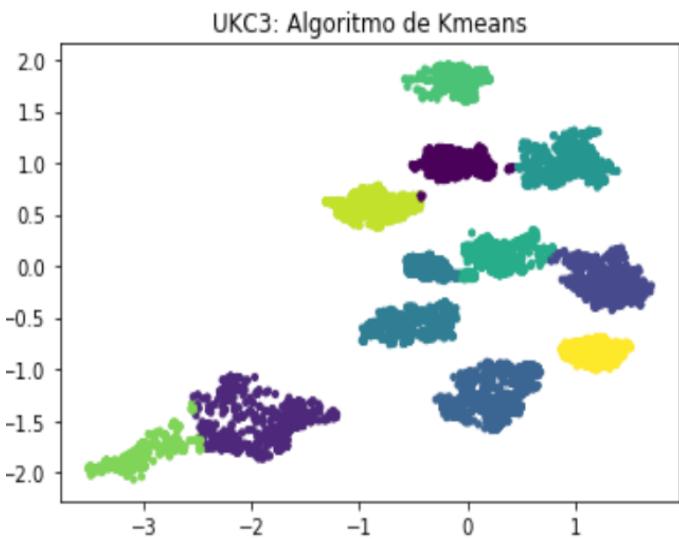
Algoritmos aplicados al dataset “UKC1”



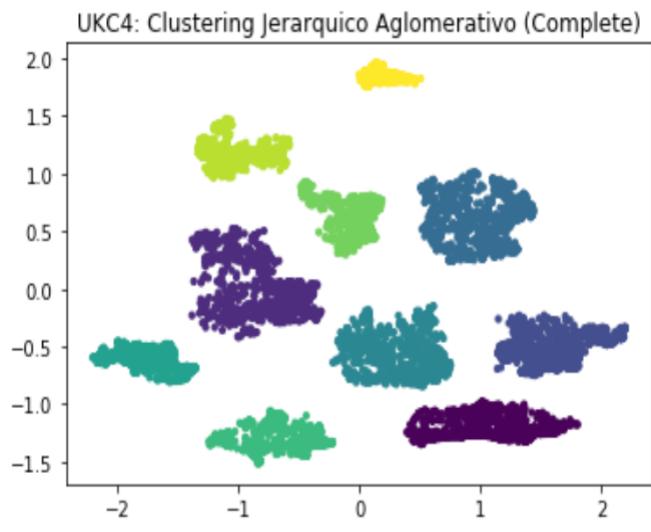
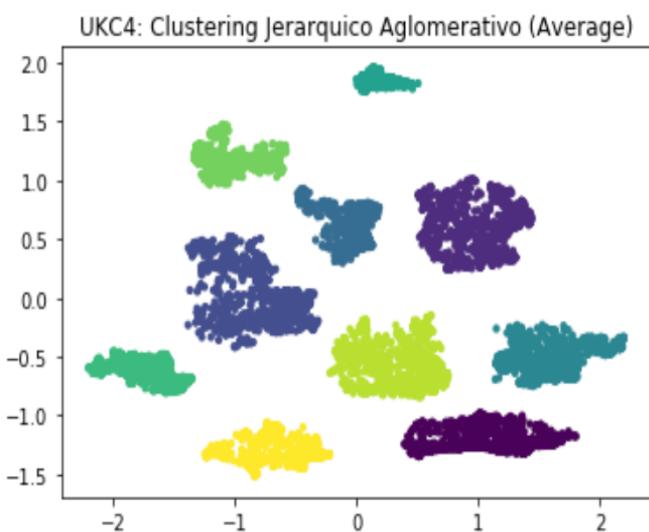
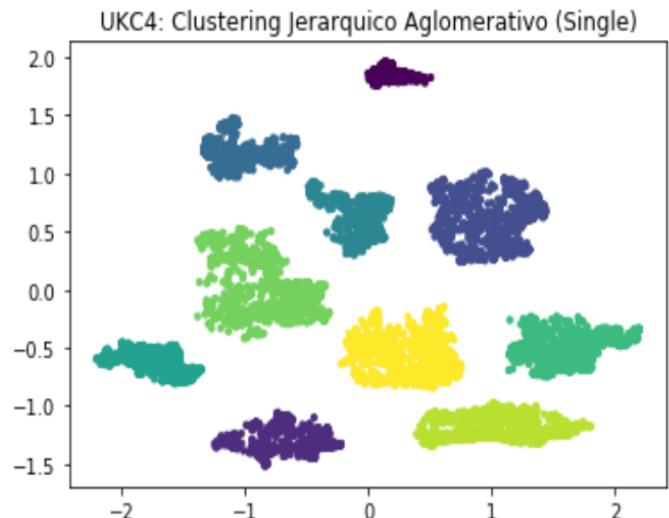
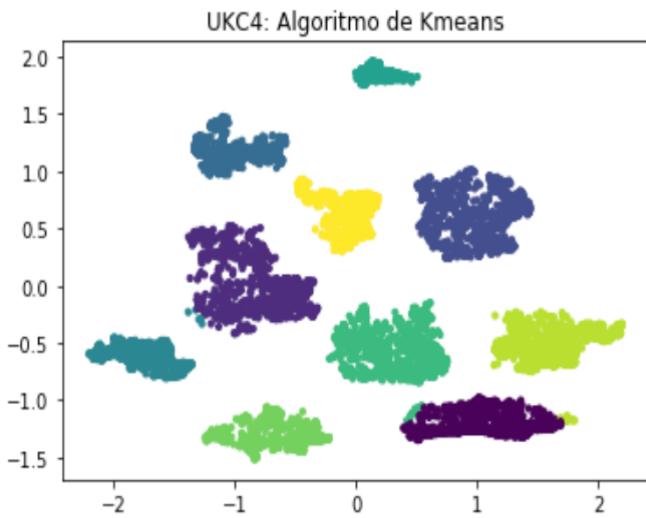
Algoritmos aplicados al dataset “UKC2”



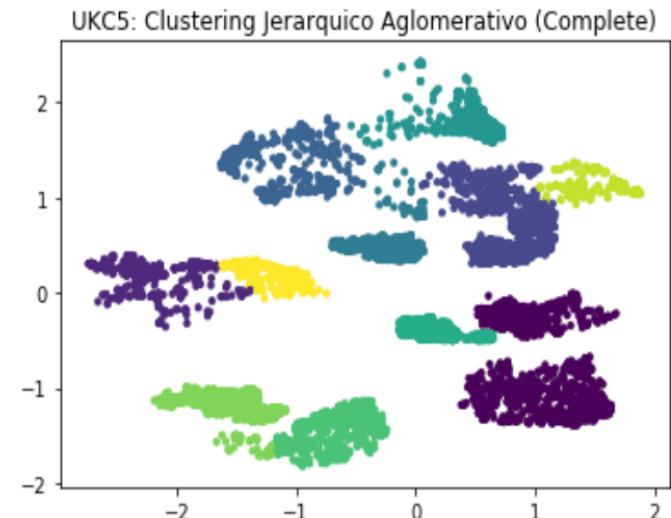
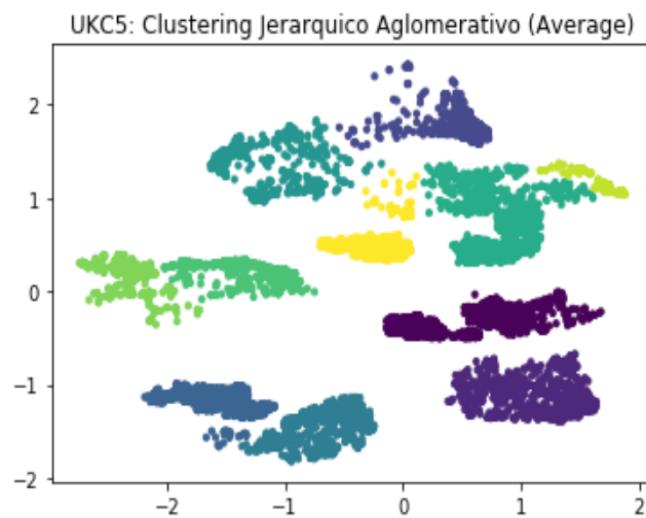
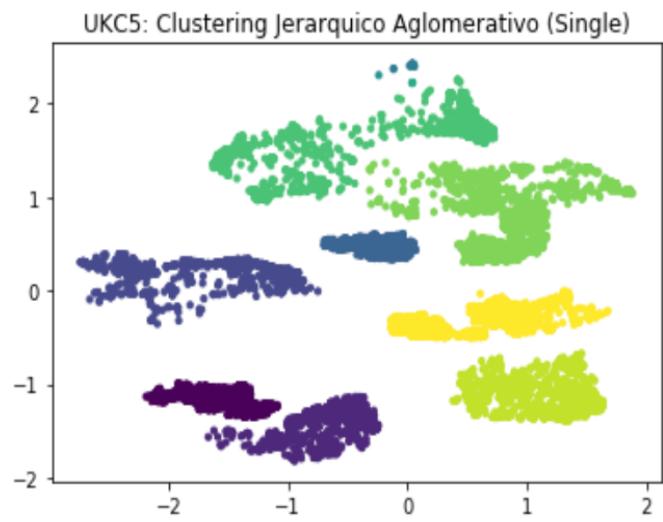
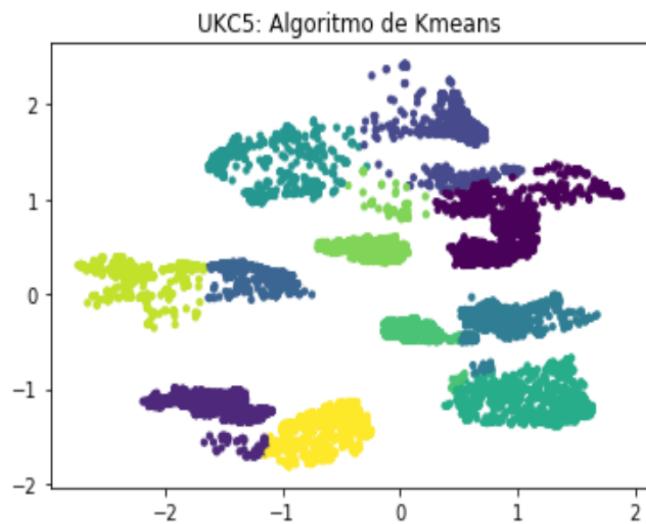
Algoritmos aplicados al dataset “UKC3”



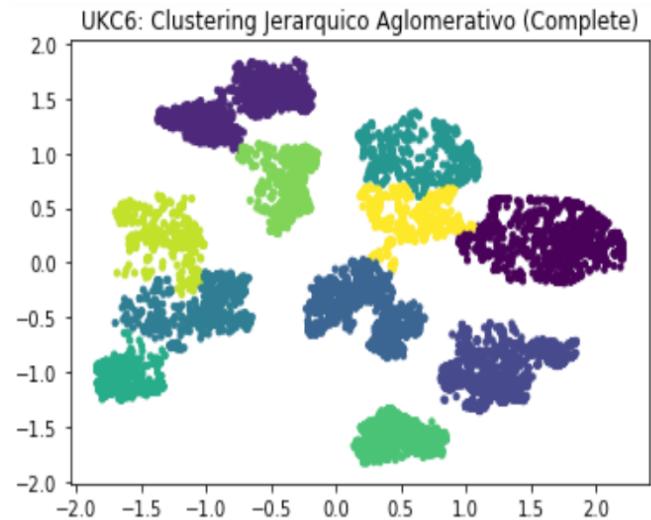
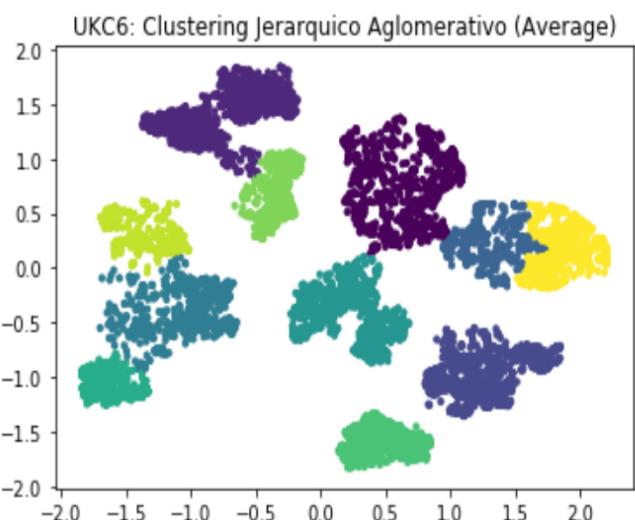
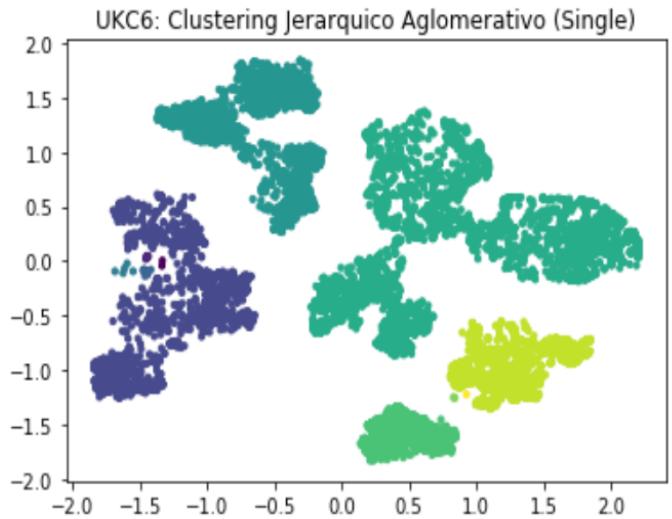
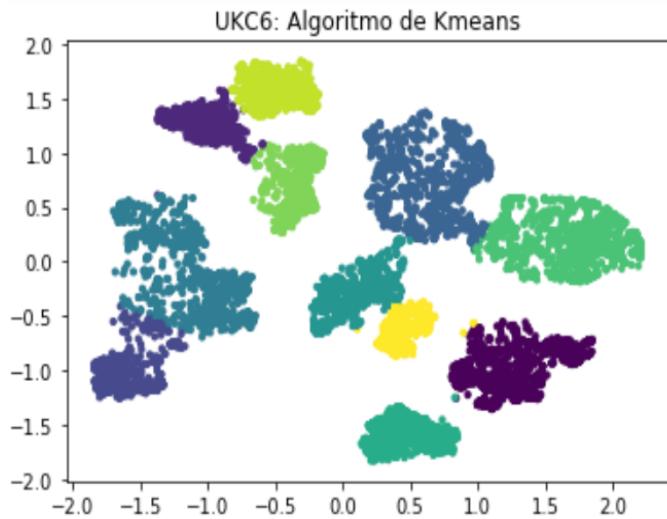
Algoritmos aplicados al dataset “UKC4”



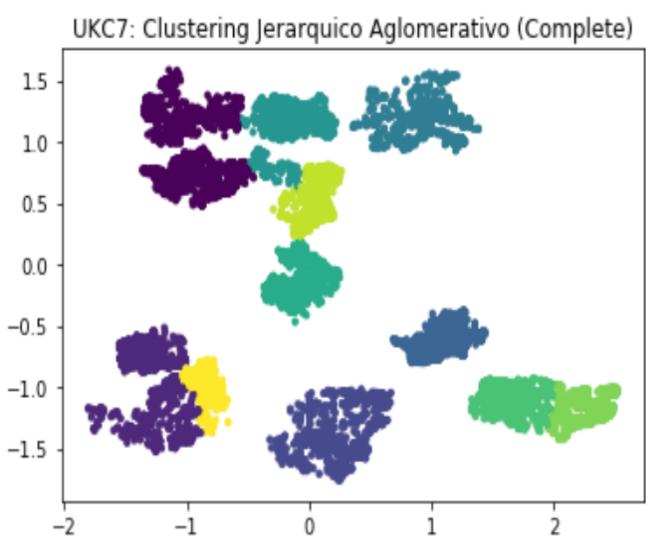
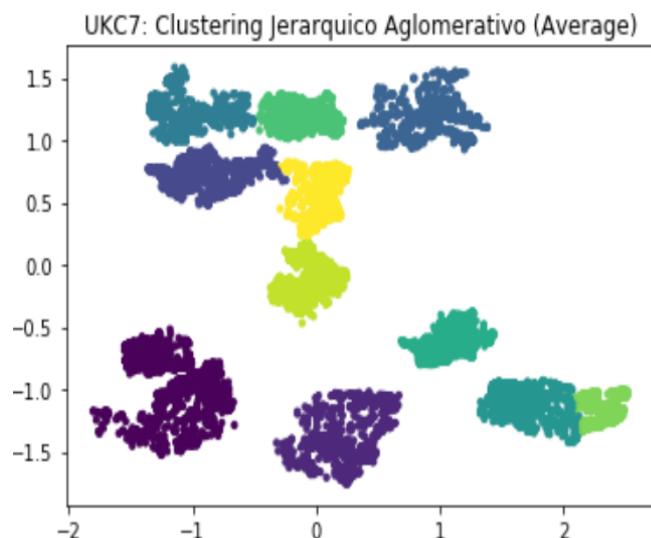
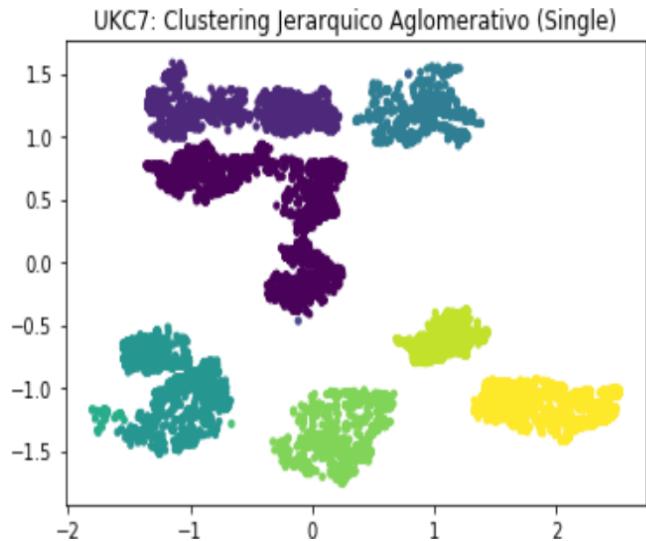
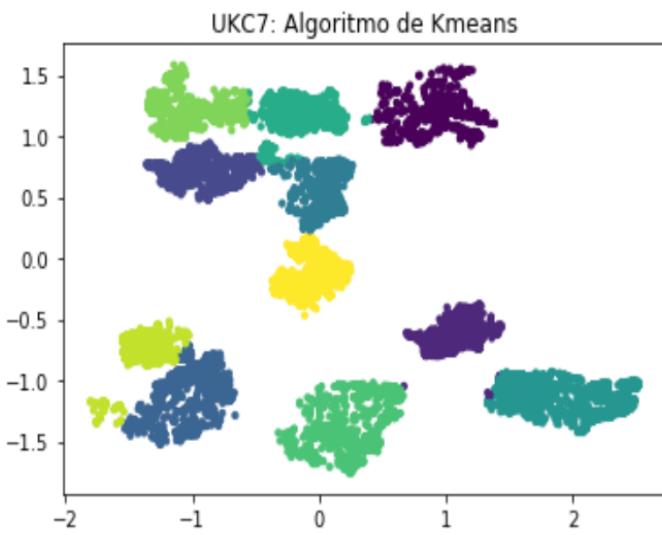
Algoritmos aplicados al dataset “UKC5”



Algoritmos aplicados al dataset “UKC6”



Algoritmos aplicados al dataset “UKC7”



Algoritmos aplicados al dataset “UKC8”

