1. Clean

x = np.random.normal(loc=0, scale=1, size=N)

x = np.sort(x)

Epsilon MargLik ELPD SE

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2.25 -460.5170185988 -460.5170197174 0.0011517382

3.00 -460.5170185988 -460.5170205869 0.0015353584

4.00 -460.5170185988 -460.5170221318 0.0020466247

8.00 -460.5170185988 -460.5170327085 0.0040891006

16.00 -460.5170186694 -460.5170748621 0.0081616917

图表, 折线图

AI 生成的内容可能不正确。

2. Caussian-mixture with outliers

x = generate\_GM\_data(N=100, seed=42)

def generate\_GM\_data(N=100, seed=0):

np.random.seed(seed)

sig = np.random.normal(0, 1, size=N-14)

noi1 = np.random.normal(100, 1, size=14)

X\_data = np.sort(np.concatenate([sig, noi1]))

return X\_data

x = np.sort(x)

Epsilon MargLik ELPD SE

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2.25 -460.5317633490 -460.5352870779 0.1922887607

3.00 -460.5430023271 -460.5492310284 0.2558859092

4.00 -460.5626758096 -460.5736661498 0.3403010873

8.00 -460.6913803948 -460.7340891143 0.6737114784

16.00 -461.1537145089 -461.3157479216 1.3210353781

图表, 折线图

AI 生成的内容可能不正确。

3. Heavy tailed data

X\_data = np.random.standard\_t(df=3, size=100)

Epsilon MargLik ELPD SE

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2.25 -460.5170216748 -460.5170728518 0.0099410763

3.00 -460.5170313052 -460.5170941278 0.0118973974

4.00 -460.5170191381 -460.5170248760 0.0032293291

8.00 -460.5170188558 -460.5170520143 0.0069492286

16.00 -460.5170232247 -460.5175707537 0.0298648551

图表, 折线图

AI 生成的内容可能不正确。

4. Skewed distribution

X\_data = np.random.exponential(scale=1, size=100)

Epsilon MargLik ELPD SE

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2.25 -460.5170185988 -460.5170189903 0.0006001244

3.00 -460.5170185988 -460.5170191260 0.0008263907

4.00 -460.5170185988 -460.5170195220 0.0011533469

8.00 -460.5170186563 -460.5170220737 0.0023149399

16.00 -460.5170188209 -460.5170345443 0.0052707125

图表, 折线图

AI 生成的内容可能不正确。

5. Multi-model mixture

a = np.random.normal(-3,1, size=50)

b = np.random.normal(+2,0.5, size=50)

x = np.sort(np.concatenate([a,b]))

Epsilon MargLik ELPD SE

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2.25 -460.5170296238 -460.5170448030 0.0071173553

3.00 -460.5170392753 -460.5170680776 0.0097648357

4.00 -460.5170541474 -460.5171016170 0.0126794626

8.00 -460.5171354705 -460.5173016568 0.0234020468

16.00 -460.5175136116 -460.5183677981 0.0509354544

图表, 折线图

AI 生成的内容可能不正确。