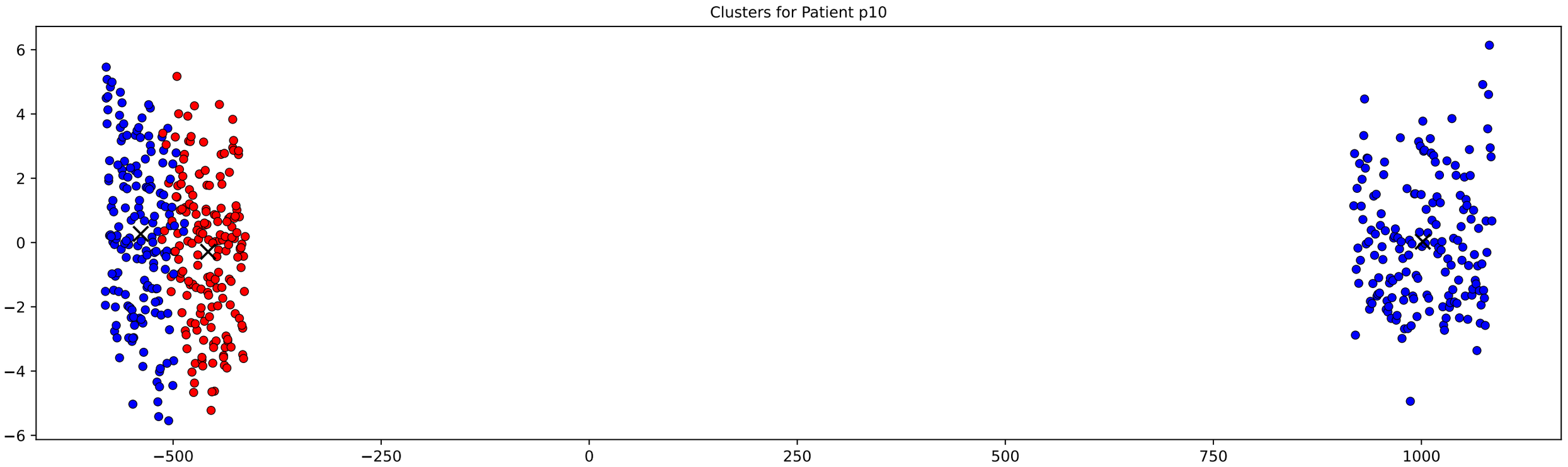
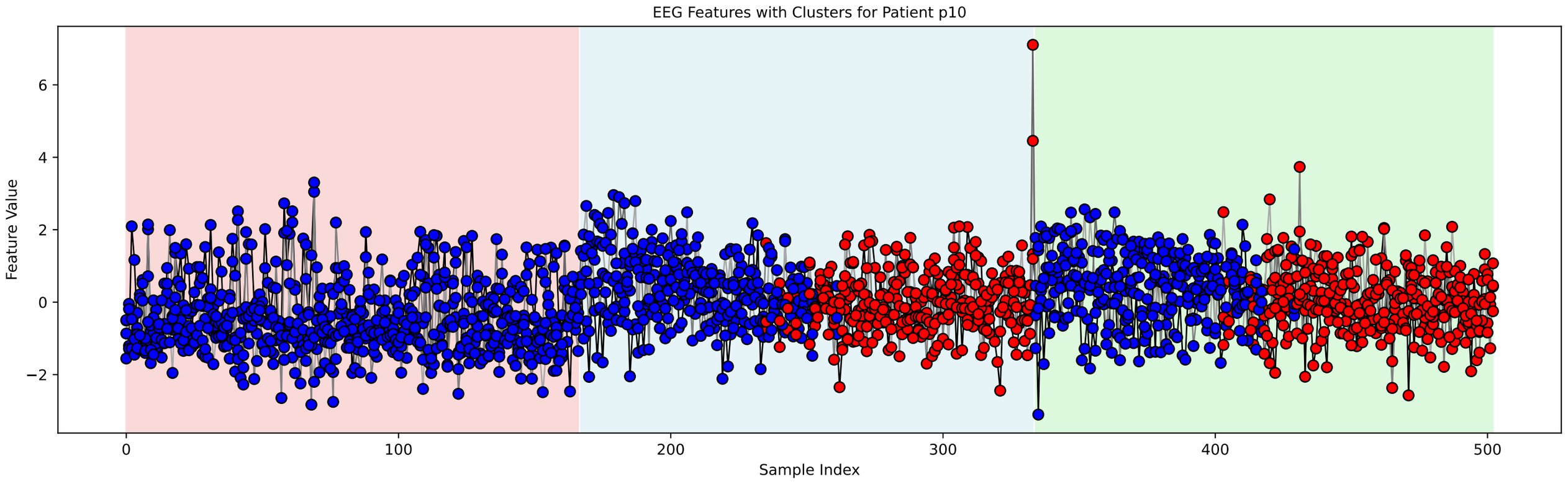
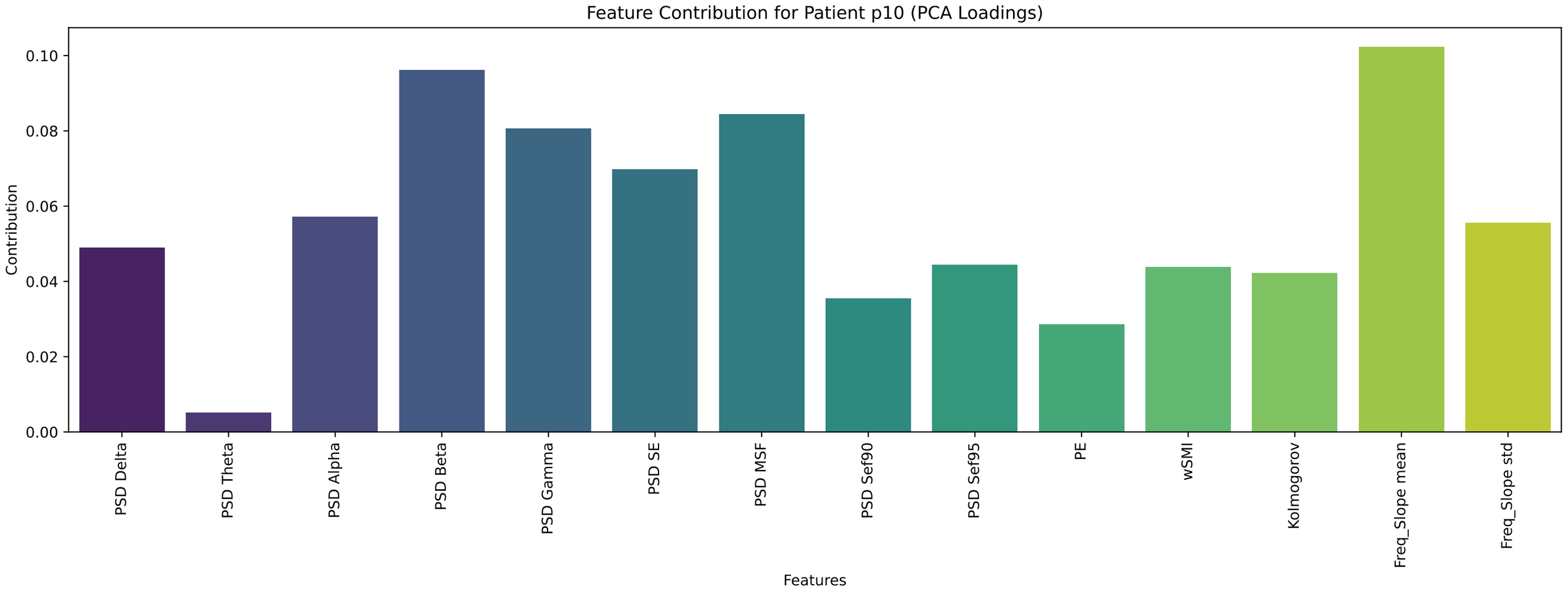

Clusters for Patient p10
6
4
2
0
−2
−4
−6
−500
−250
0
250
500
750
1000


EEG Features with Clusters for Patient p10
Feature Value
6
4
2
0
−2
0
100
200
300
400
500
Sample Index


Feature Contribution for Patient p10 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

Clusters for Patient p11

EEG Features with Clusters for Patient p11

Feature Value

Sample Index

Feature Contribution for Patient p11 (PCA Loadings)

Contribution

PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std

Features

Clusters for Patient p12

EEG Features with Clusters for Patient p12

Feature Value

Sample Index

Feature Contribution for Patient p12 (PCA Loadings)

Contribution

PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std

Features

Clusters for Patient p13

EEG Features with Clusters for Patient p13

Feature Value

Sample Index

Feature Contribution for Patient p13 (PCA Loadings)

Contribution

Features

PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std

Clusters for Patient p14

EEG Features with Clusters for Patient p14

Feature Value

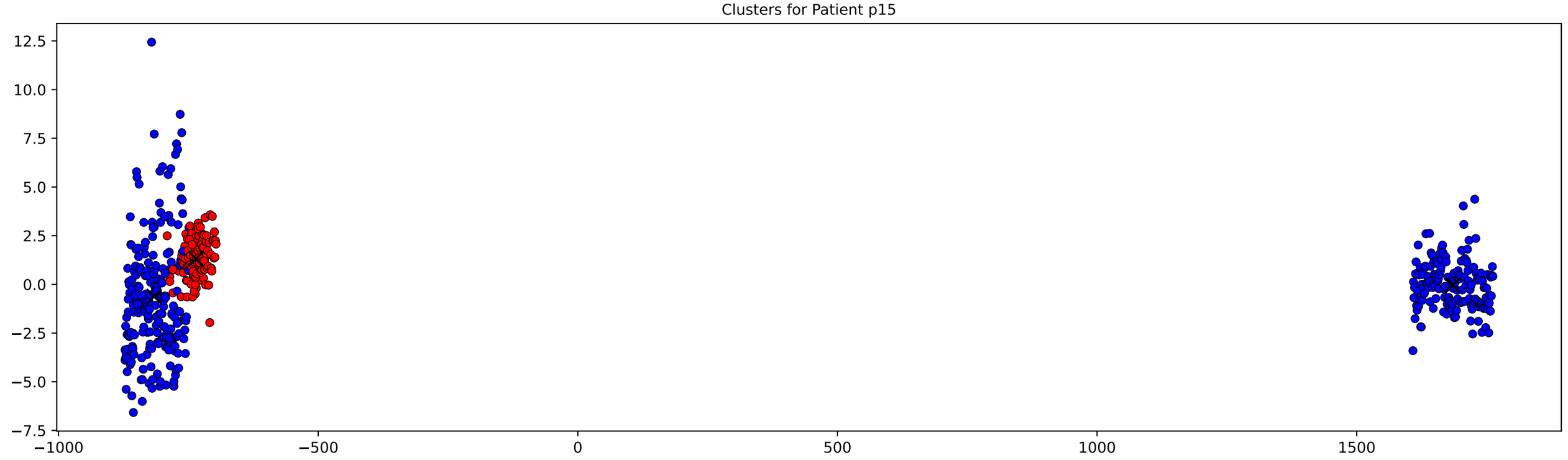
Sample Index

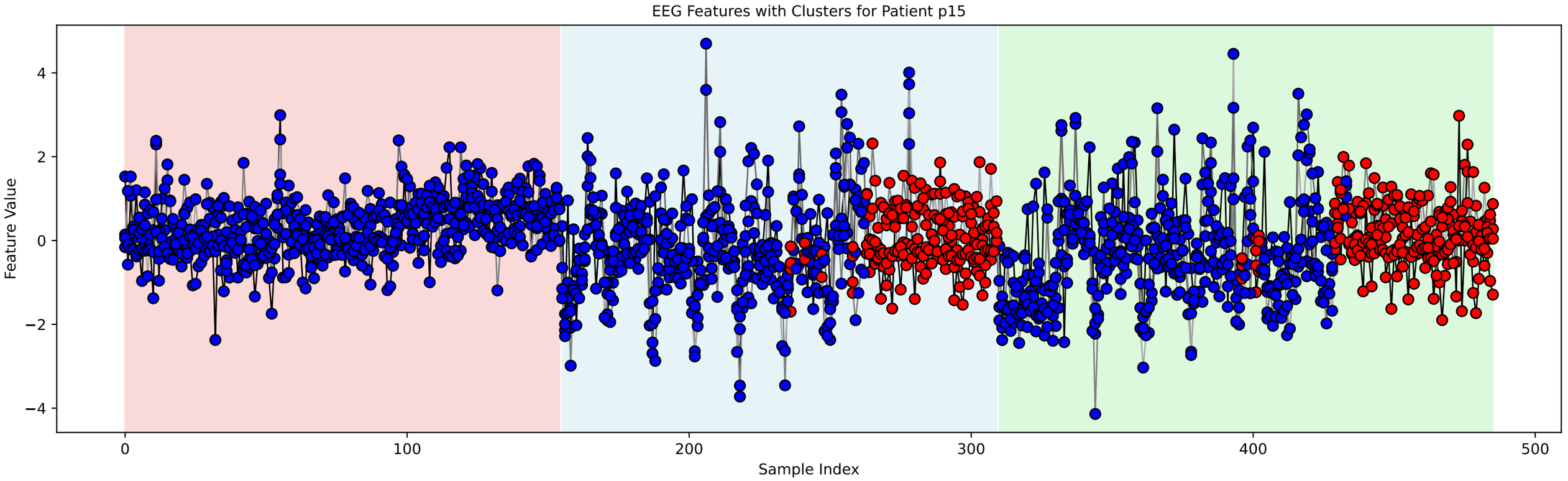
Feature Contribution for Patient p14 (PCA Loadings)

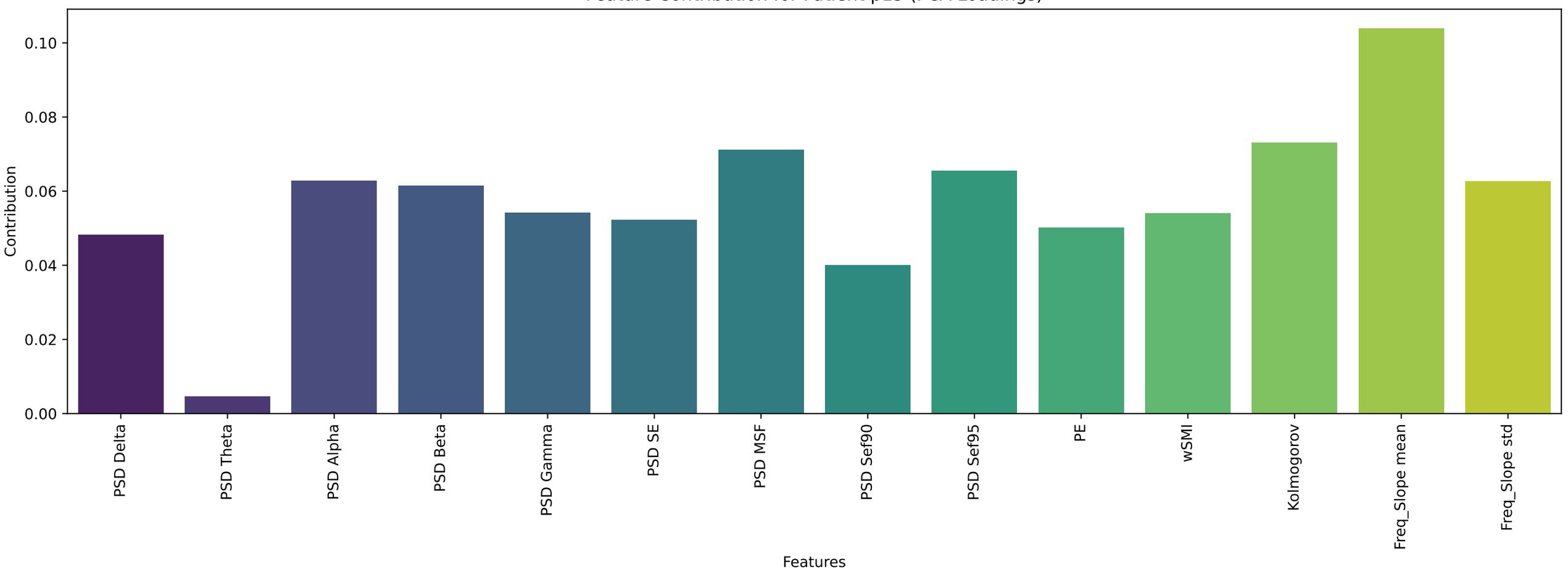
Contribution

Features

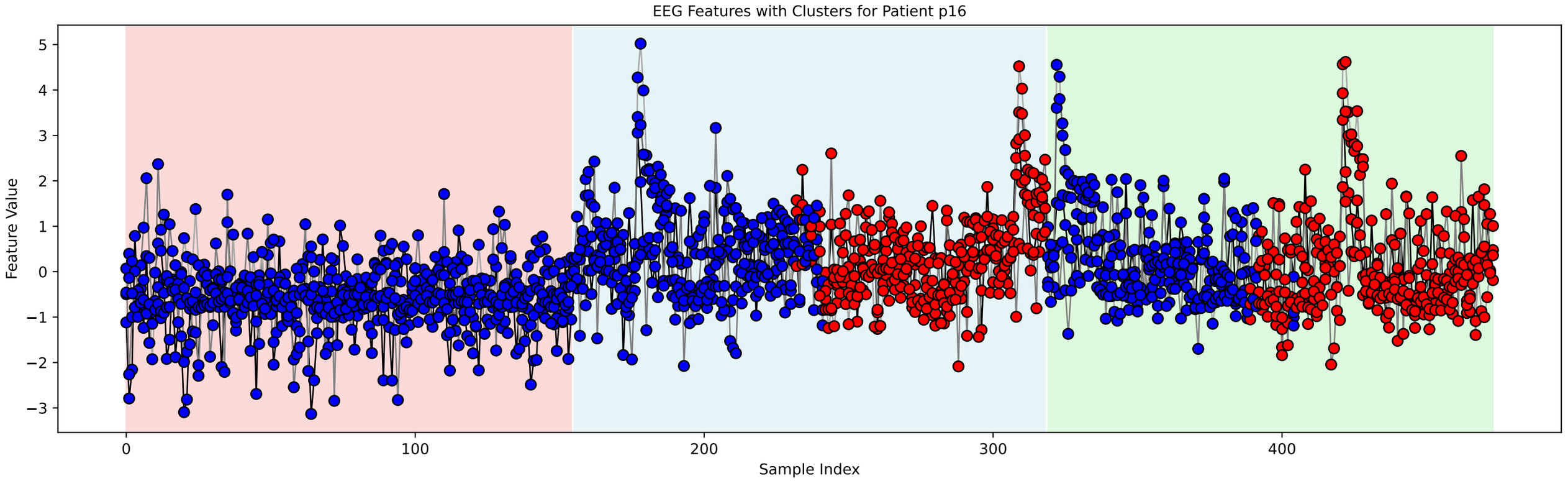
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std

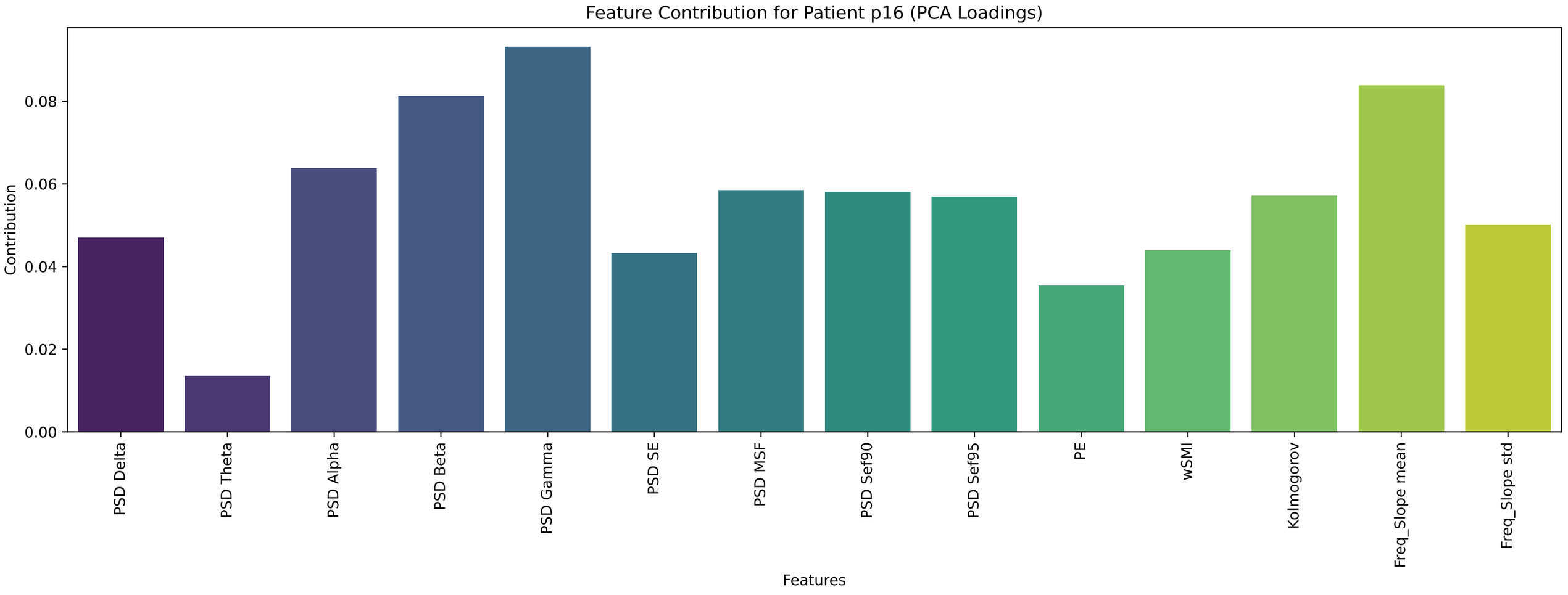

Clusters for Patient p15
12.5
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−1000
−500
0
500
1000
1500

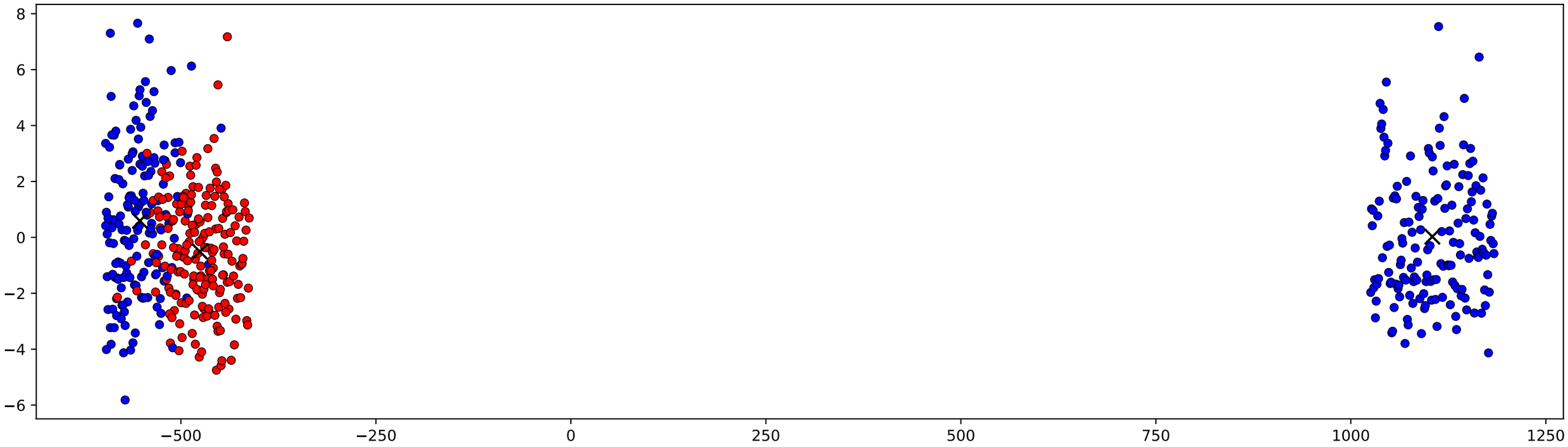

EEG Features with Clusters for Patient p15
Feature Value
4
2
0
−2
−4
0
100
200
300
400
500
Sample Index

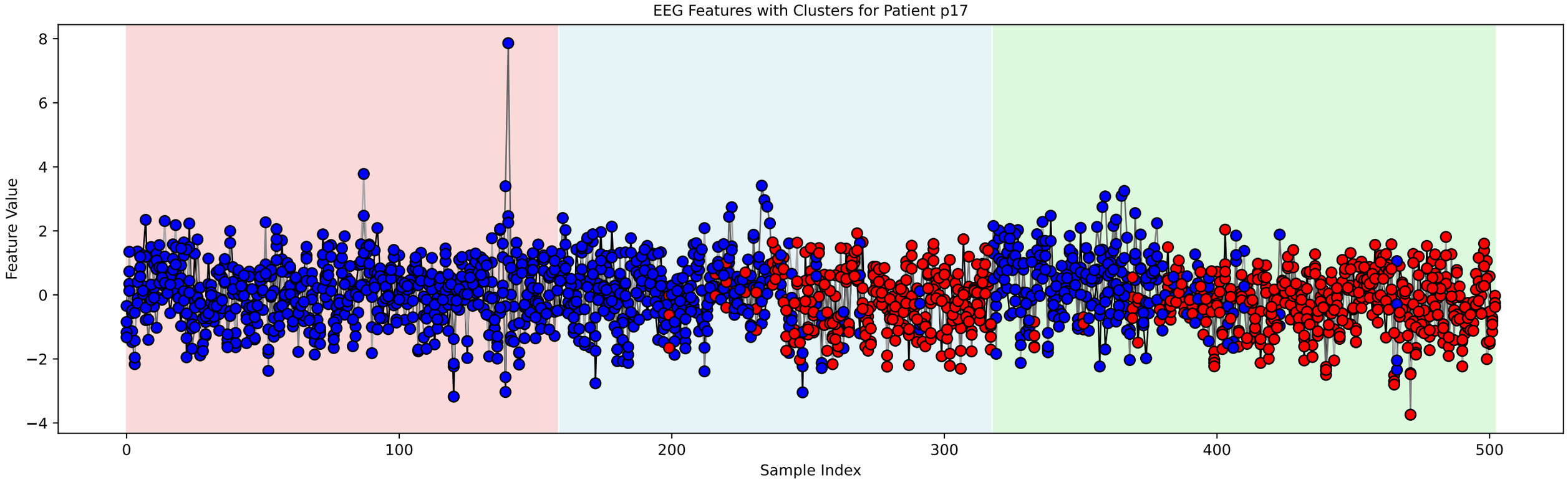

Feature Contribution for Patient p15 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

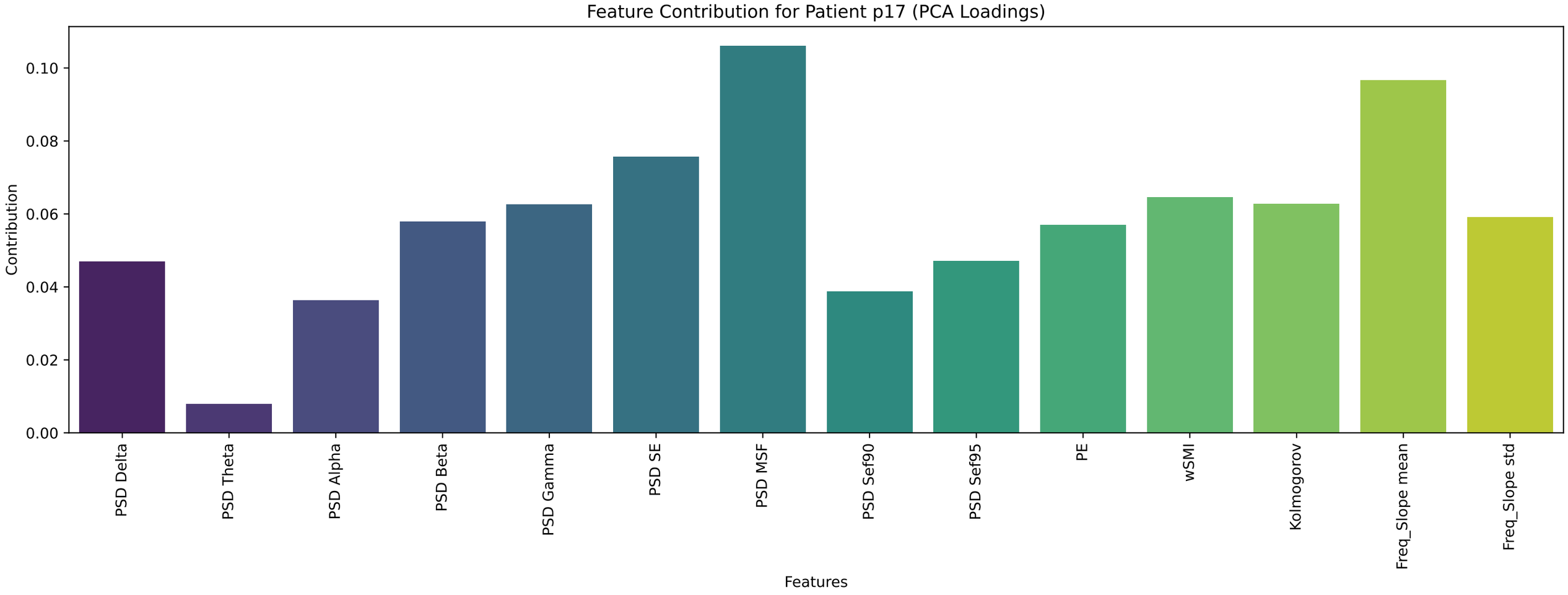
Clusters for Patient p16
12
10
8
6
4
2
0
−2
−4
−600
−400
−200
0
200
400
600
800
1000

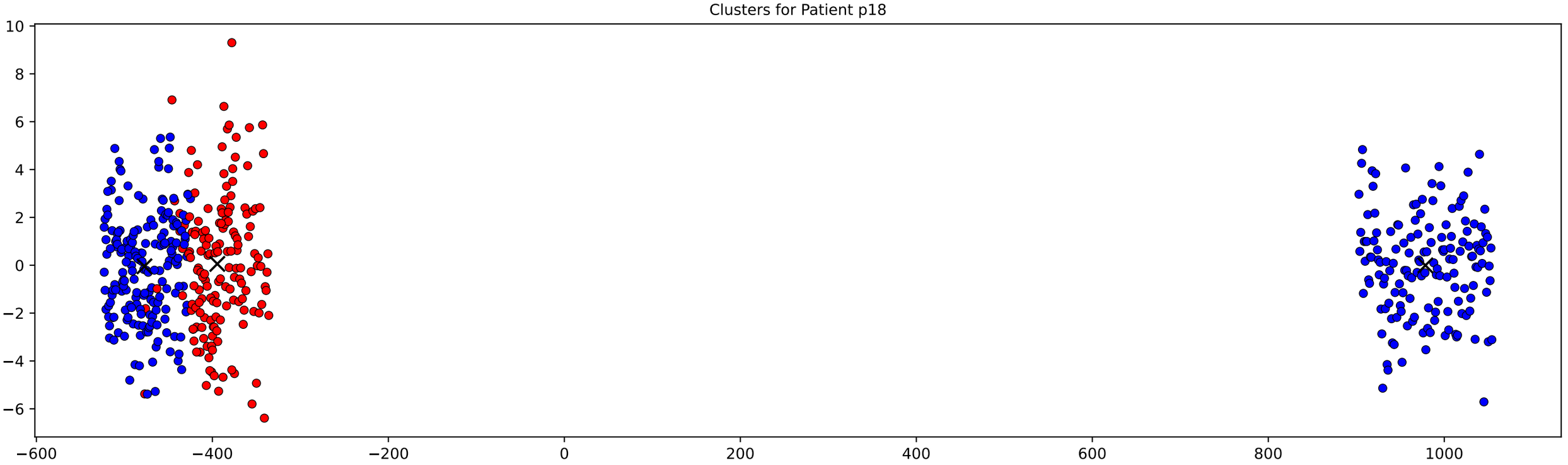

EEG Features with Clusters for Patient p16
Feature Value
5
4
3
2
1
0
−1
−2
−3
0
100
200
300
400
Sample Index

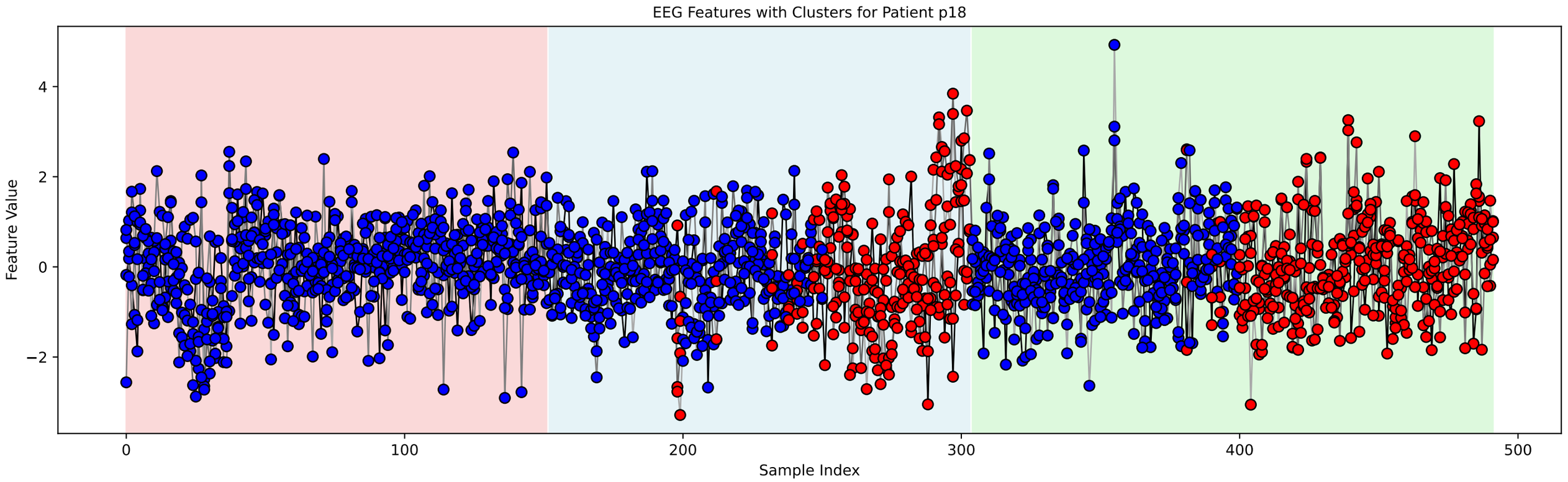

Feature Contribution for Patient p16 (PCA Loadings)
Contribution
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

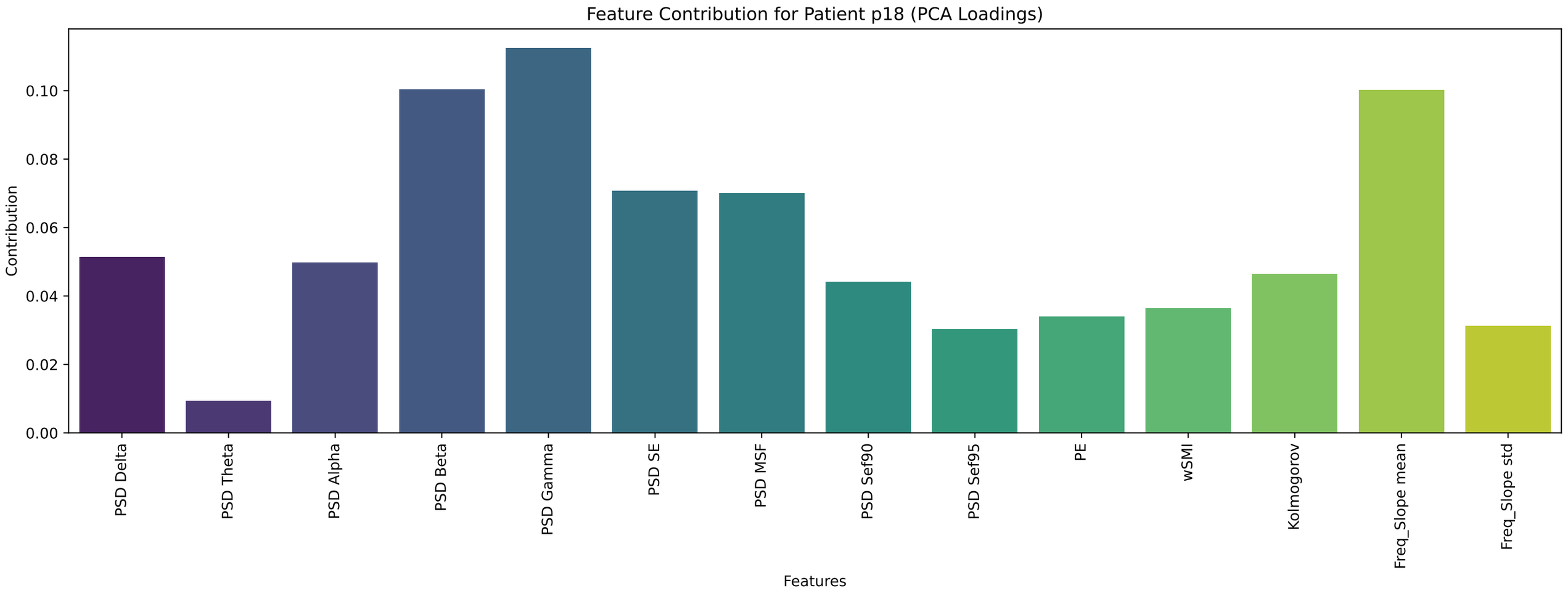

Clusters for Patient p17
8
6
4
2
0
−2
−4
−6
−500
−250
0
250
500
750
1000
1250


EEG Features with Clusters for Patient p17
Feature Value
8
6
4
2
0
−2
−4
0
100
200
300
400
500
Sample Index


Feature Contribution for Patient p17 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features


Clusters for Patient p18
10
8
6
4
2
0
−2
−4
−6
−600
−400
−200
0
200
400
600
800
1000


EEG Features with Clusters for Patient p18
Feature Value
4
2
0
−2
0
100
200
300
400
500
Sample Index


Feature Contribution for Patient p18 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

Clusters for Patient p19

12.5
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0

−500
0
500
1000
1500

EEG Features with Clusters for Patient p19

Feature Value

6
4
2
0
−2

0
100
200
300
400
500

Sample Index

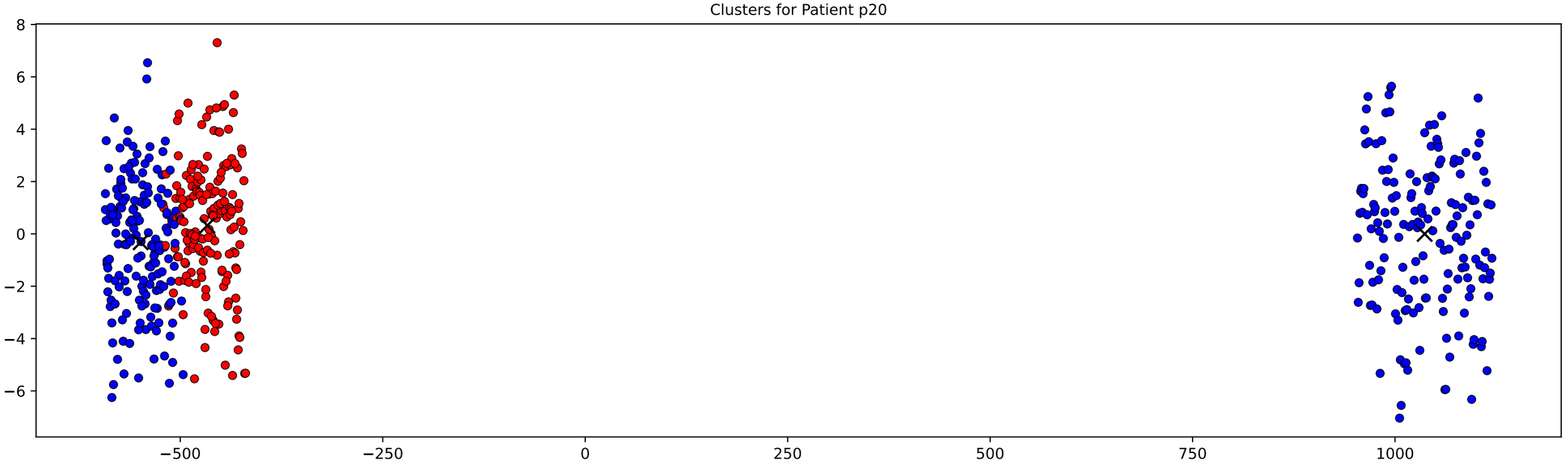
Feature Contribution for Patient p19 (PCA Loadings)

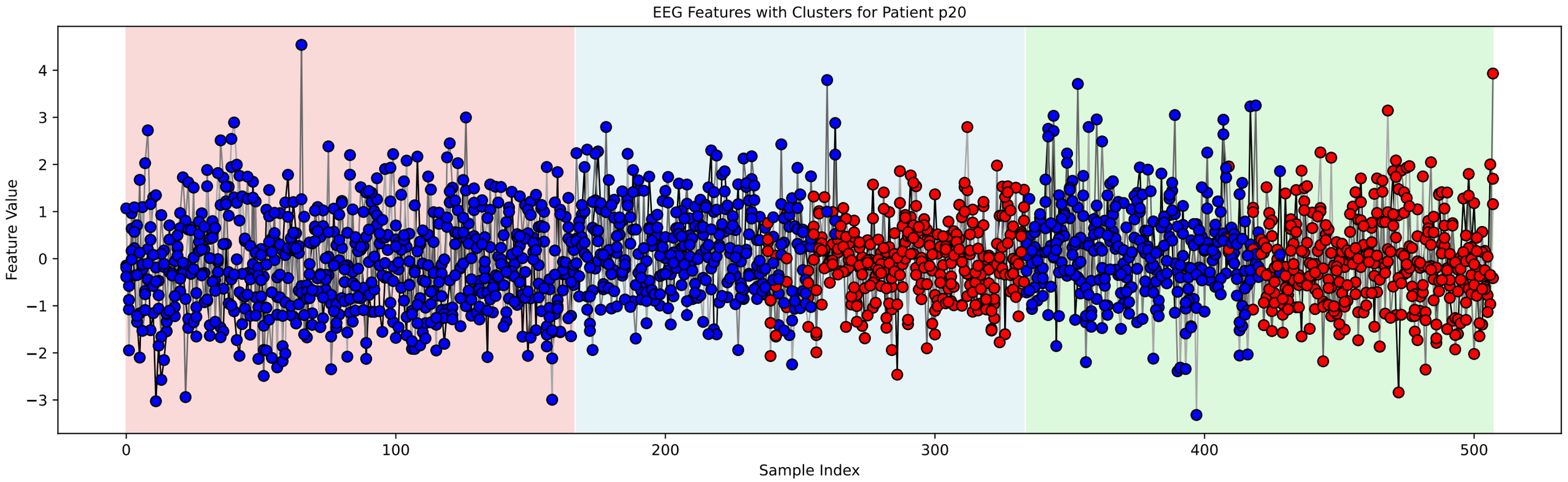
Contribution

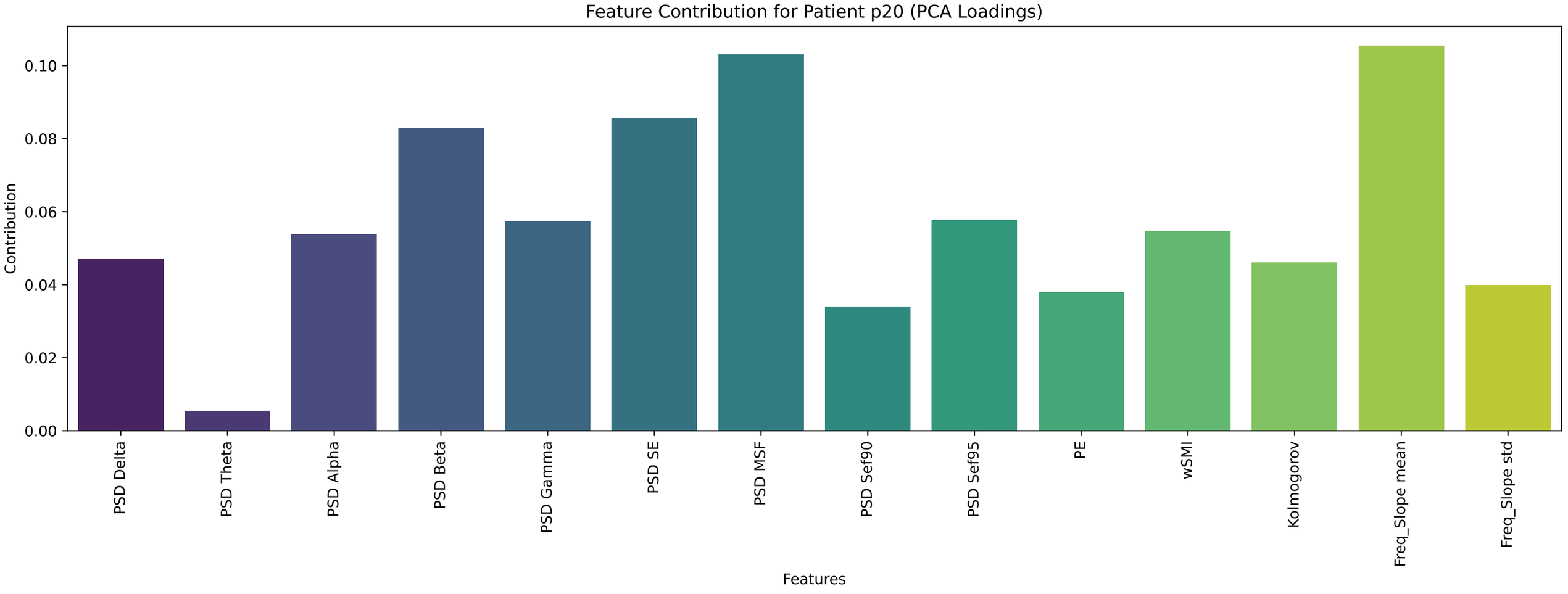
0.10
0.08
0.06
0.04
0.02
0.00

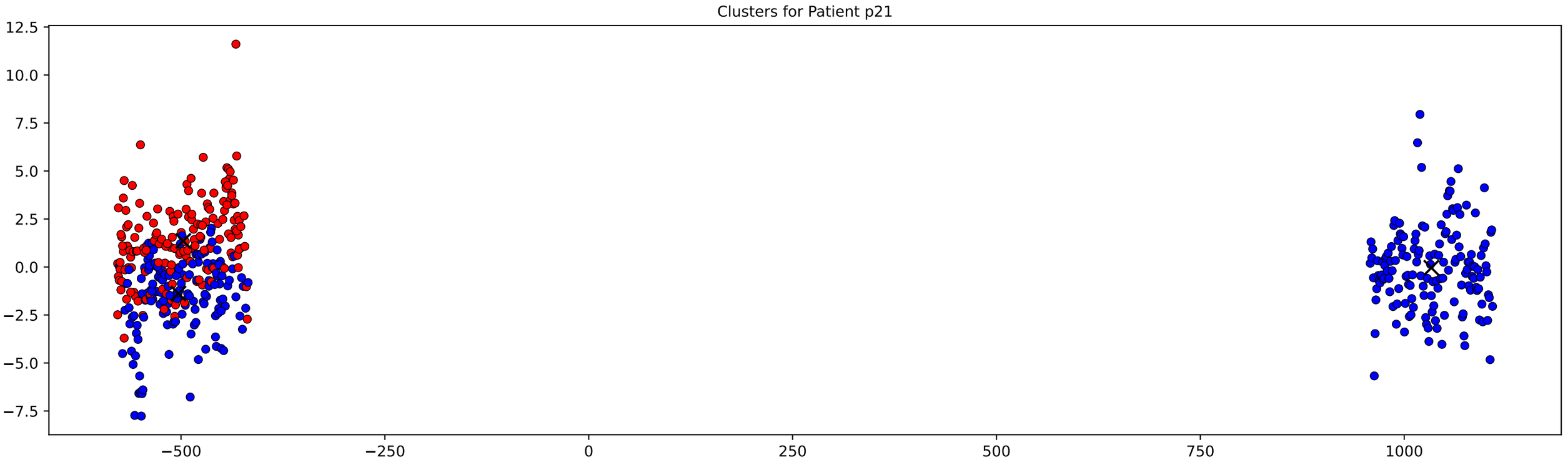
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std

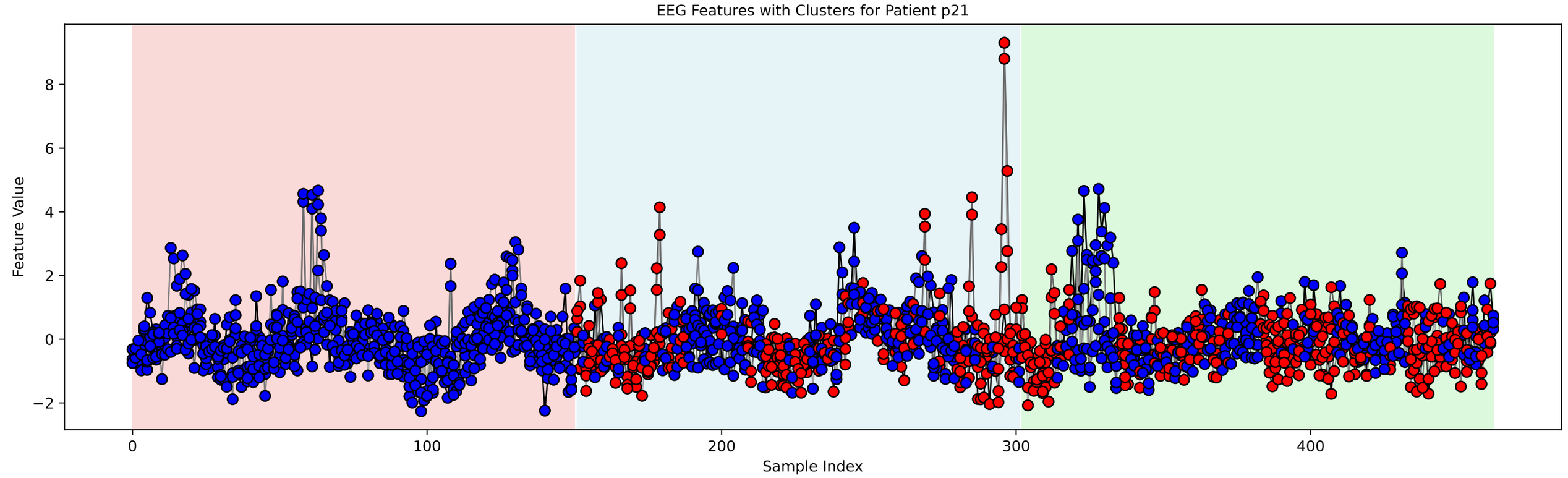
Features

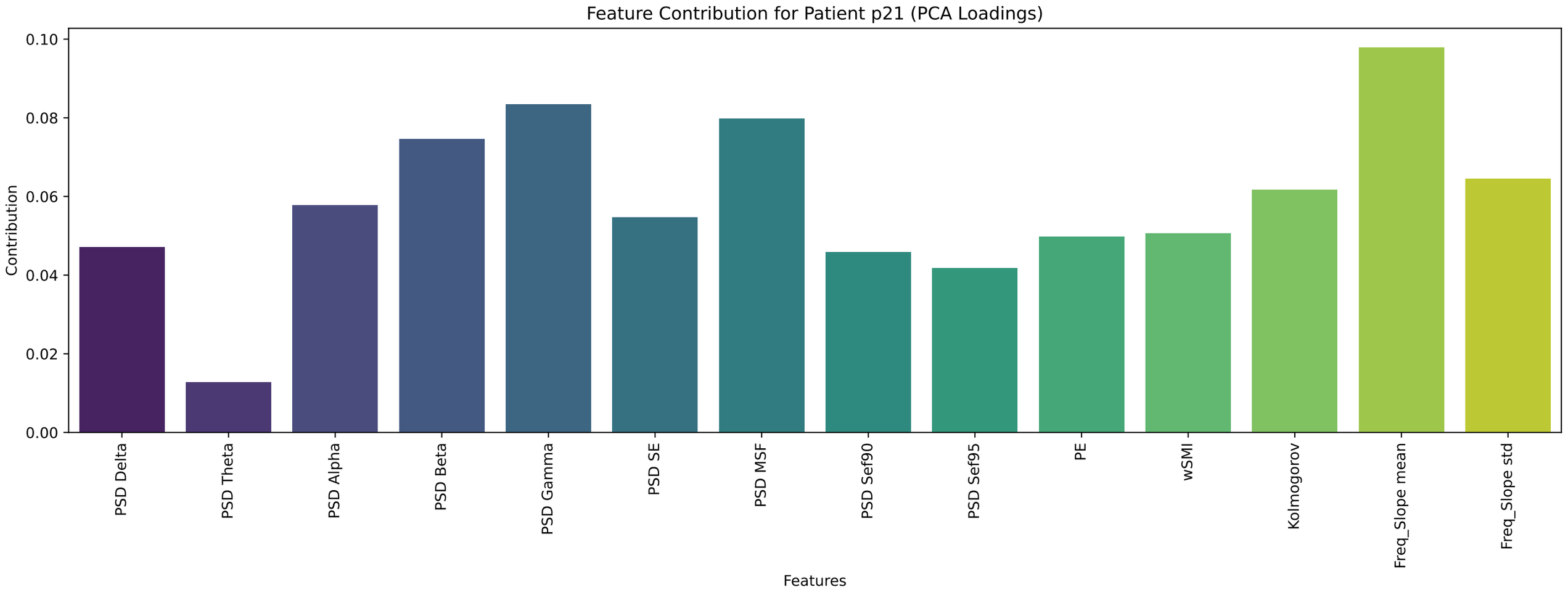

Clusters for Patient p20
8
6
4
2
0
−2
−4
−6
−500
−250
0
250
500
750
1000


EEG Features with Clusters for Patient p20
Feature Value
4
3
2
1
0
−1
−2
−3
0
100
200
300
400
500
Sample Index


Feature Contribution for Patient p20 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features


Clusters for Patient p21
12.5
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−500
−250
0
250
500
750
1000


EEG Features with Clusters for Patient p21
Feature Value
8
6
4
2
0
−2
0
100
200
300
400
Sample Index


Feature Contribution for Patient p21 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

Clusters for Patient p22

EEG Features with Clusters for Patient p22

Feature Value

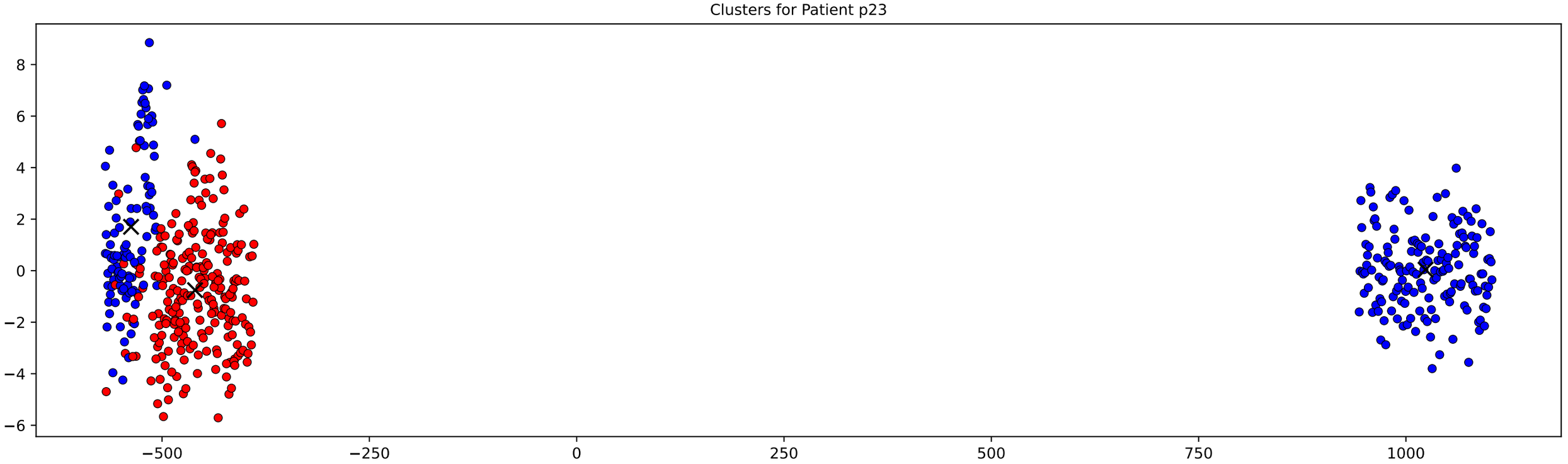
Sample Index

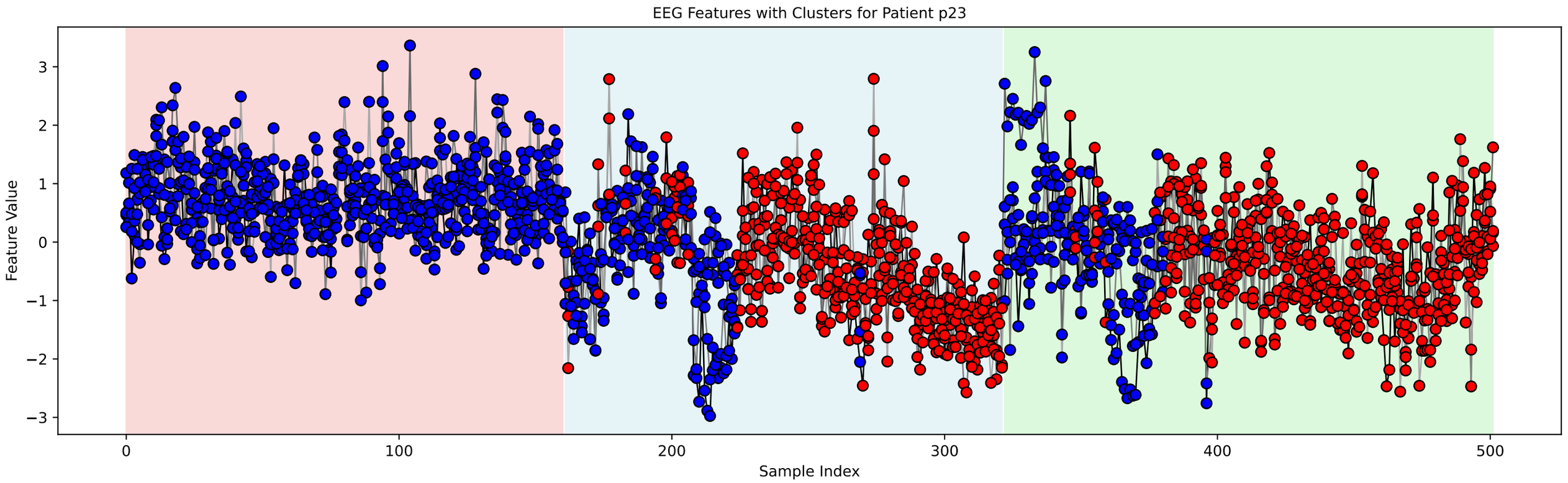
Feature Contribution for Patient p22 (PCA Loadings)

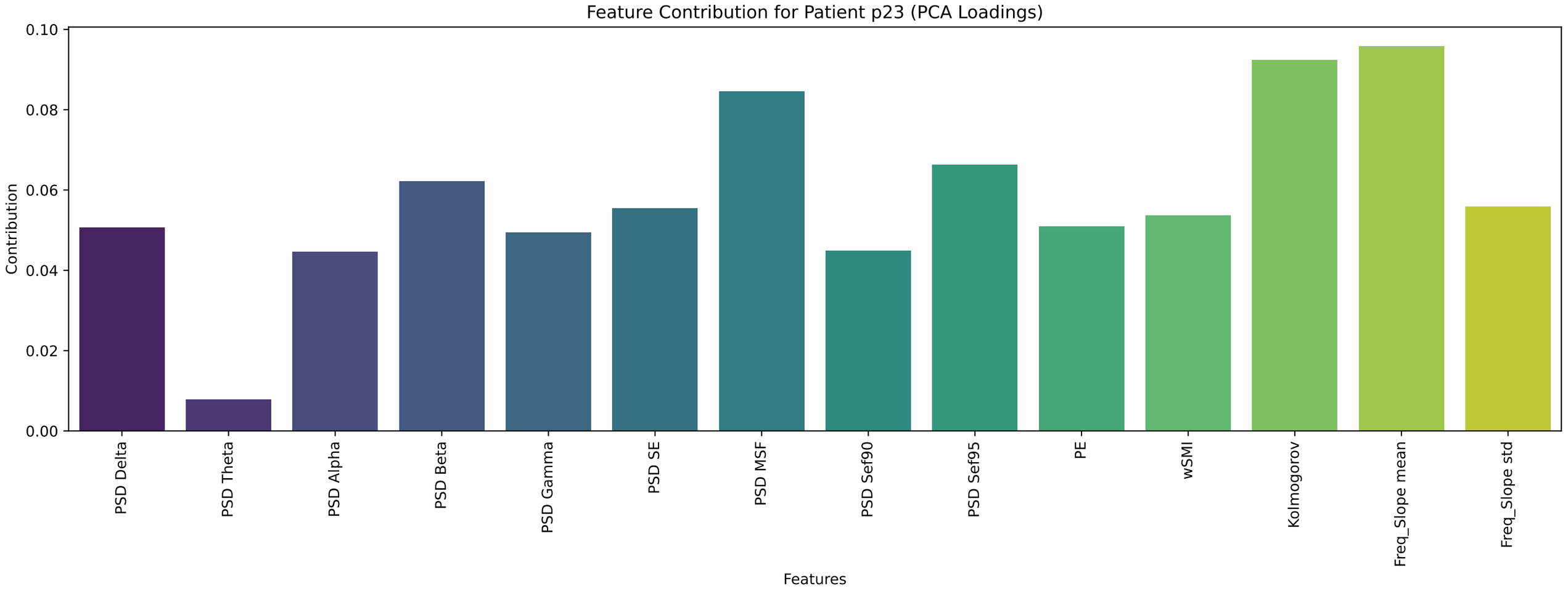
Contribution

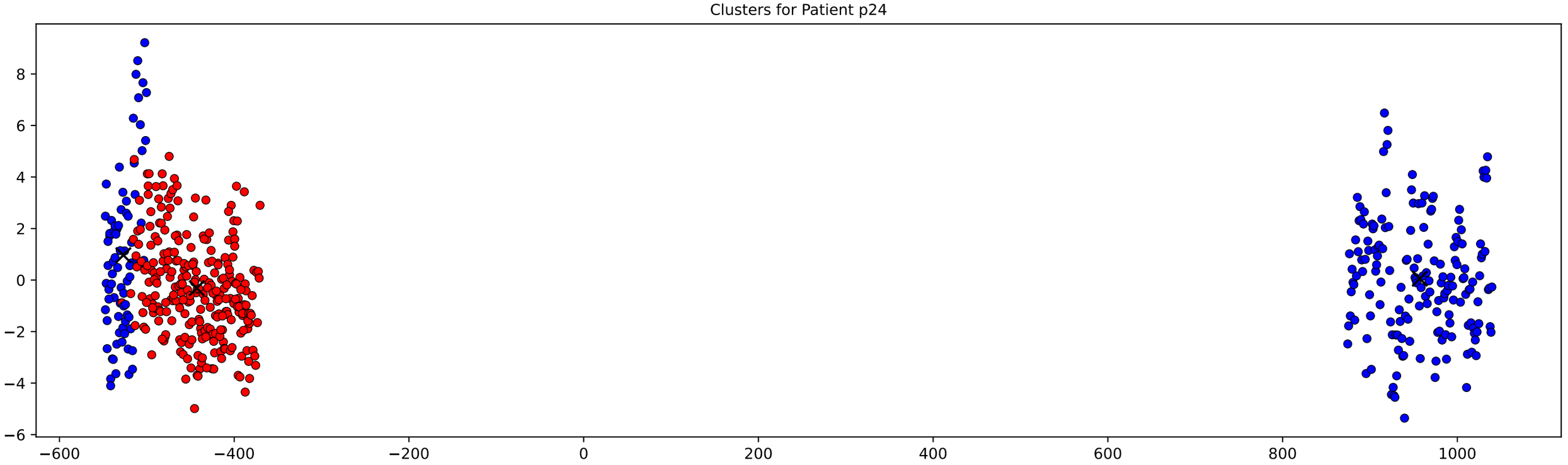
Features

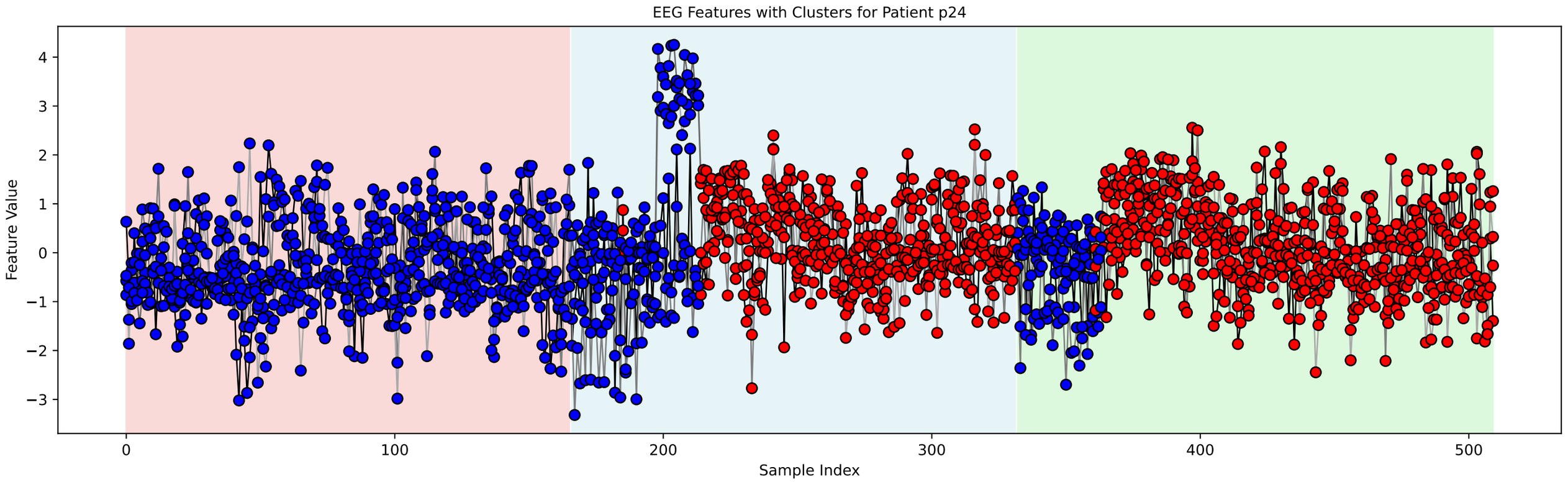
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std

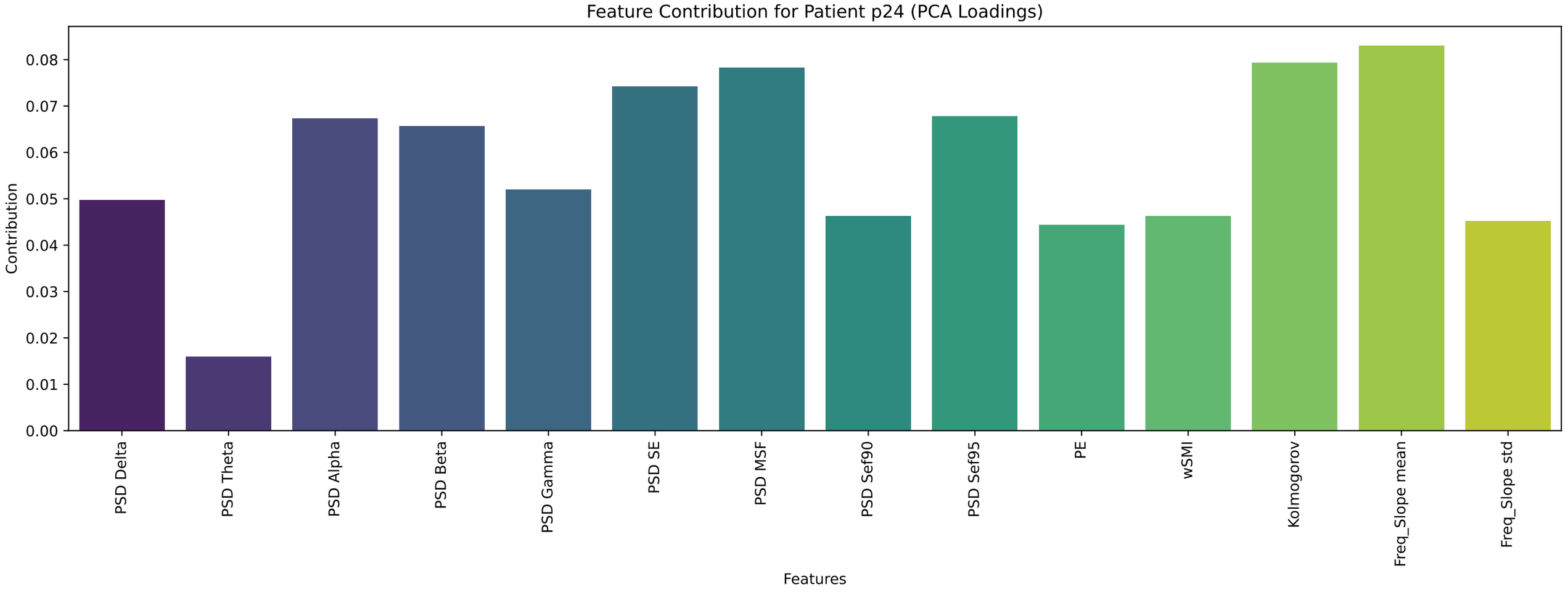

Clusters for Patient p23
8
6
4
2
0
−2
−4
−6
−500
−250
0
250
500
750
1000


EEG Features with Clusters for Patient p23
Feature Value
3
2
1
0
−1
−2
−3
0
100
200
300
400
500
Sample Index


Feature Contribution for Patient p23 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features


Clusters for Patient p24
8
6
4
2
0
−2
−4
−6
−600
−400
−200
0
200
400
600
800
1000


EEG Features with Clusters for Patient p24
Feature Value
4
3
2
1
0
−1
−2
−3
0
100
200
300
400
500
Sample Index


Feature Contribution for Patient p24 (PCA Loadings)
Contribution
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

Clusters for Patient p25

EEG Features with Clusters for Patient p25

Feature Value

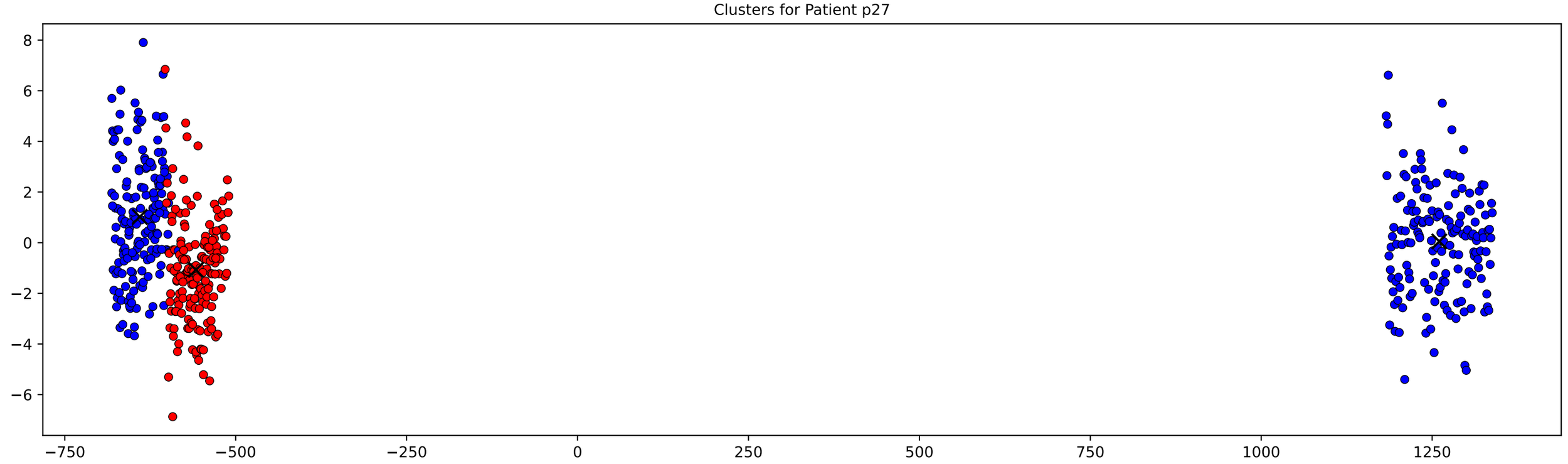
Sample Index

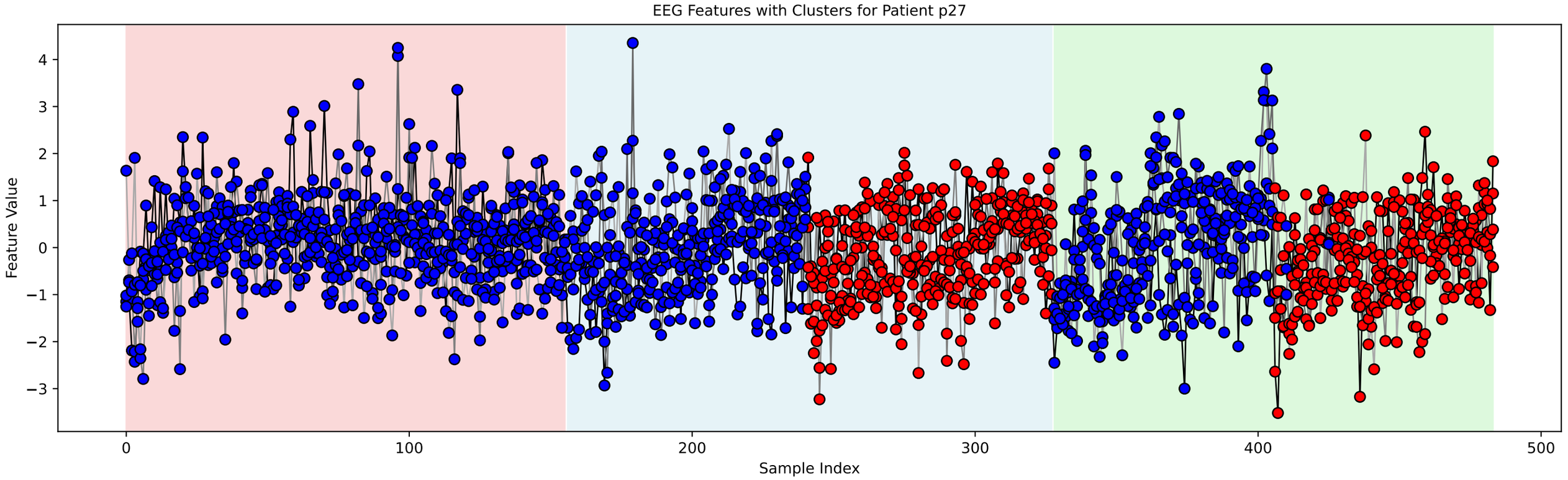
Feature Contribution for Patient p25 (PCA Loadings)

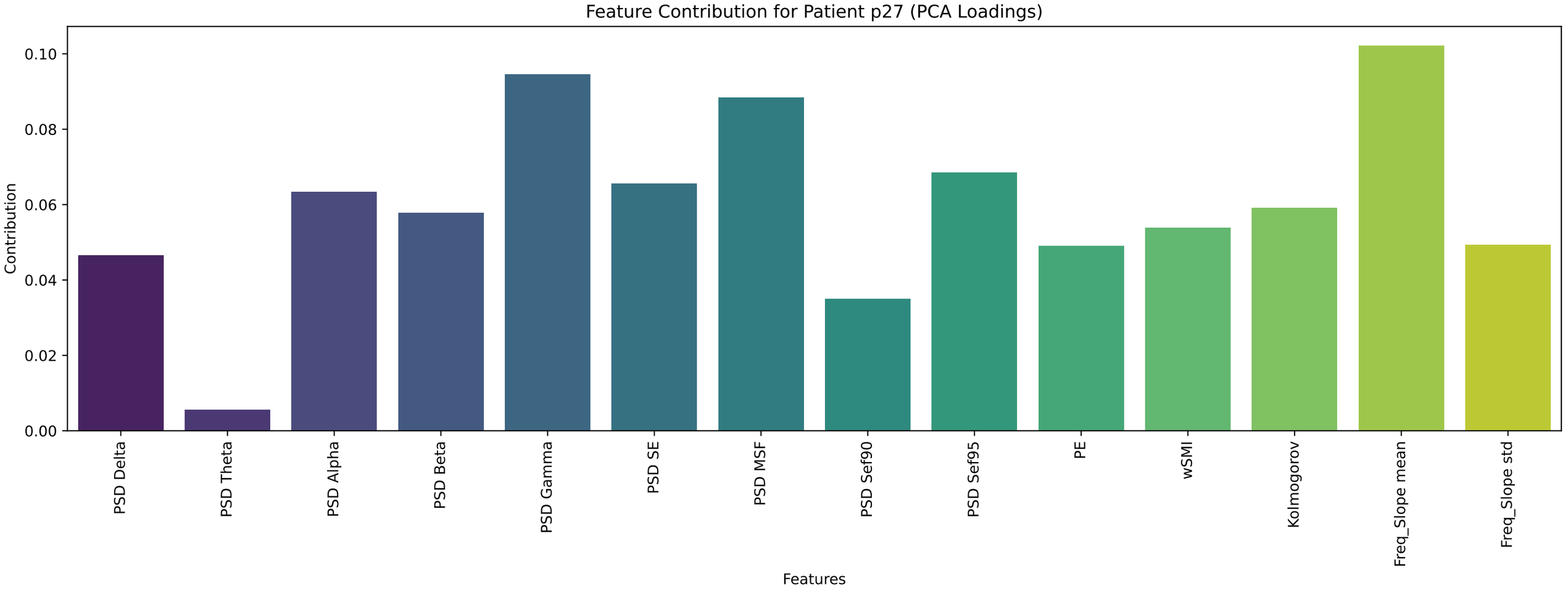
Contribution

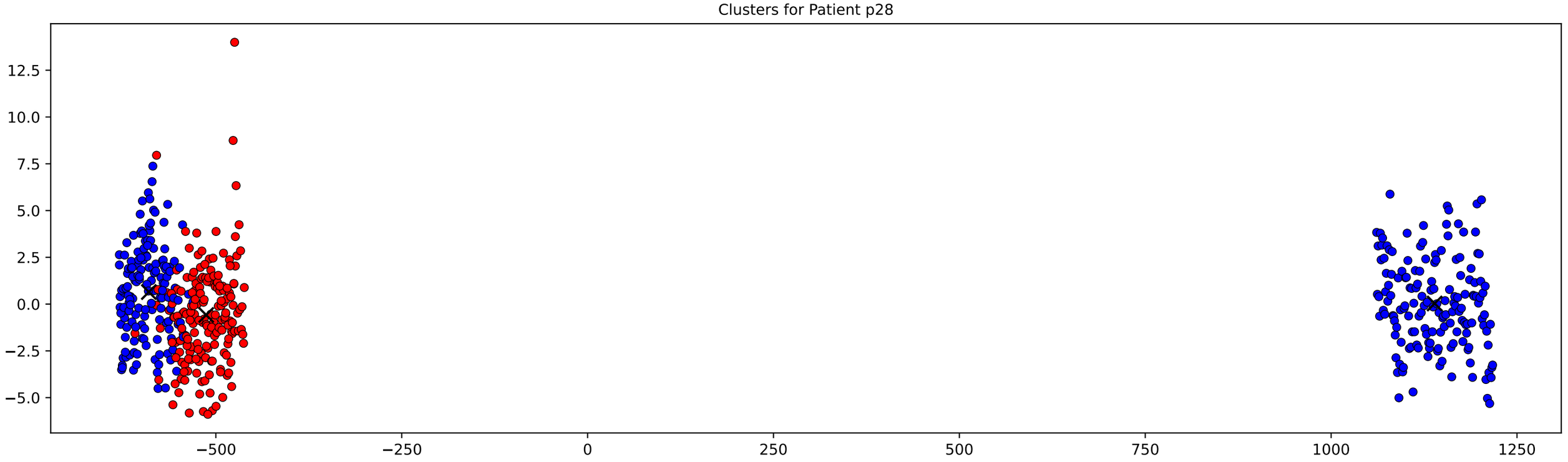
Features

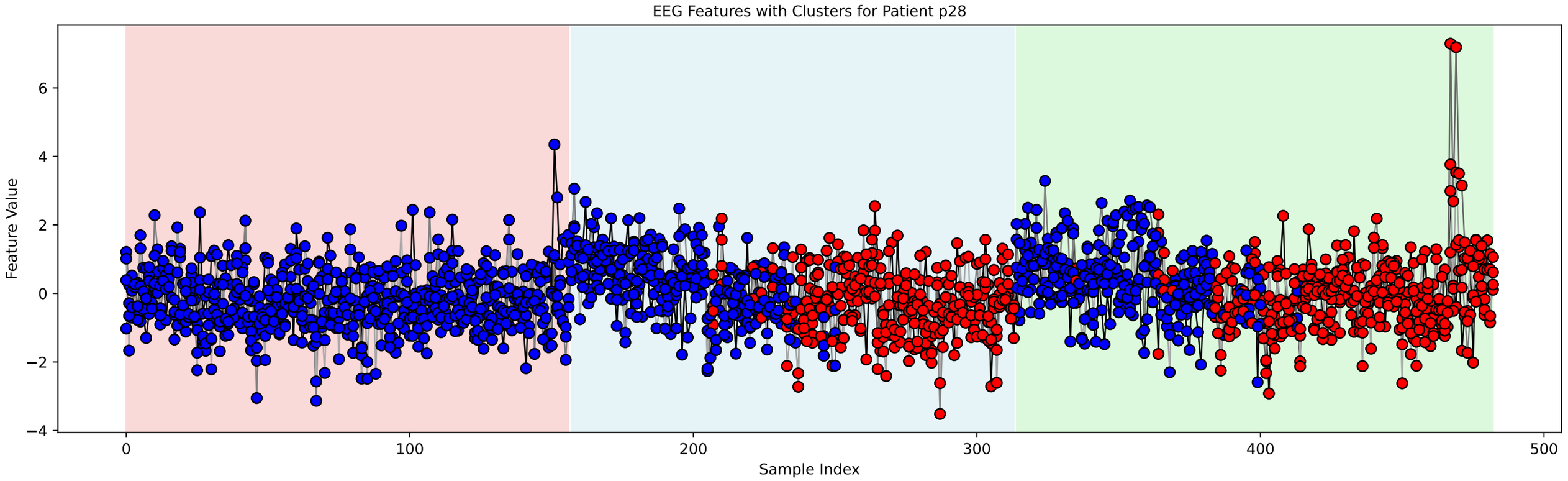
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std

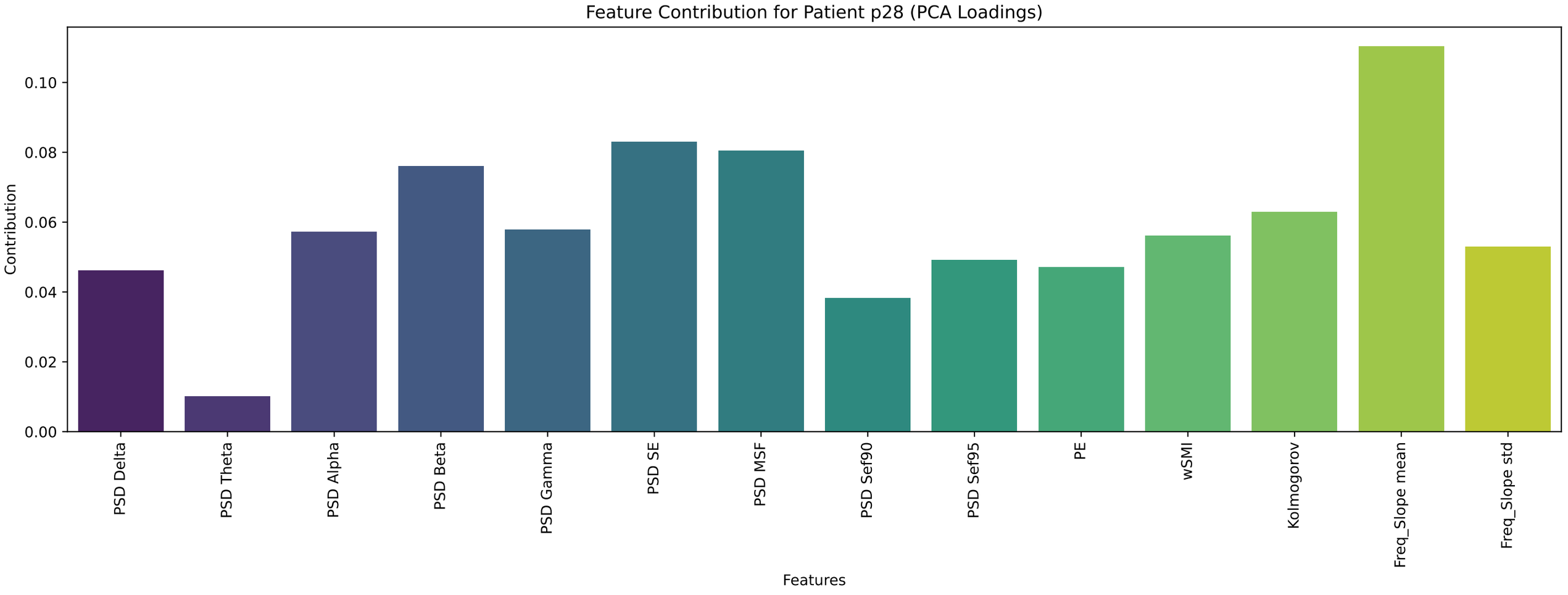

Clusters for Patient p27
8
6
4
2
0
−2
−4
−6
−750
−500
−250
0
250
500
750
1000
1250


EEG Features with Clusters for Patient p27
Feature Value
4
3
2
1
0
−1
−2
−3
0
100
200
300
400
500
Sample Index


Feature Contribution for Patient p27 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features


Clusters for Patient p28
12.5
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−500
−250
0
250
500
750
1000
1250


EEG Features with Clusters for Patient p28
Feature Value
6
4
2
0
−2
−4
0
100
200
300
400
500
Sample Index


Feature Contribution for Patient p28 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

Clusters for Patient p29

EEG Features with Clusters for Patient p29

Feature Value

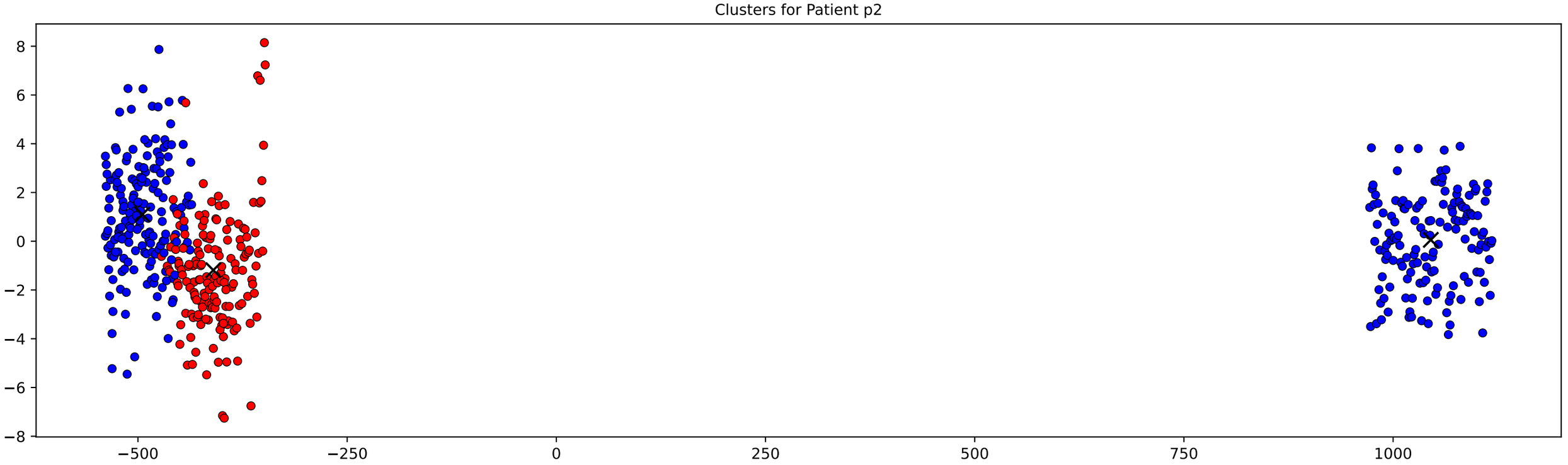
Sample Index

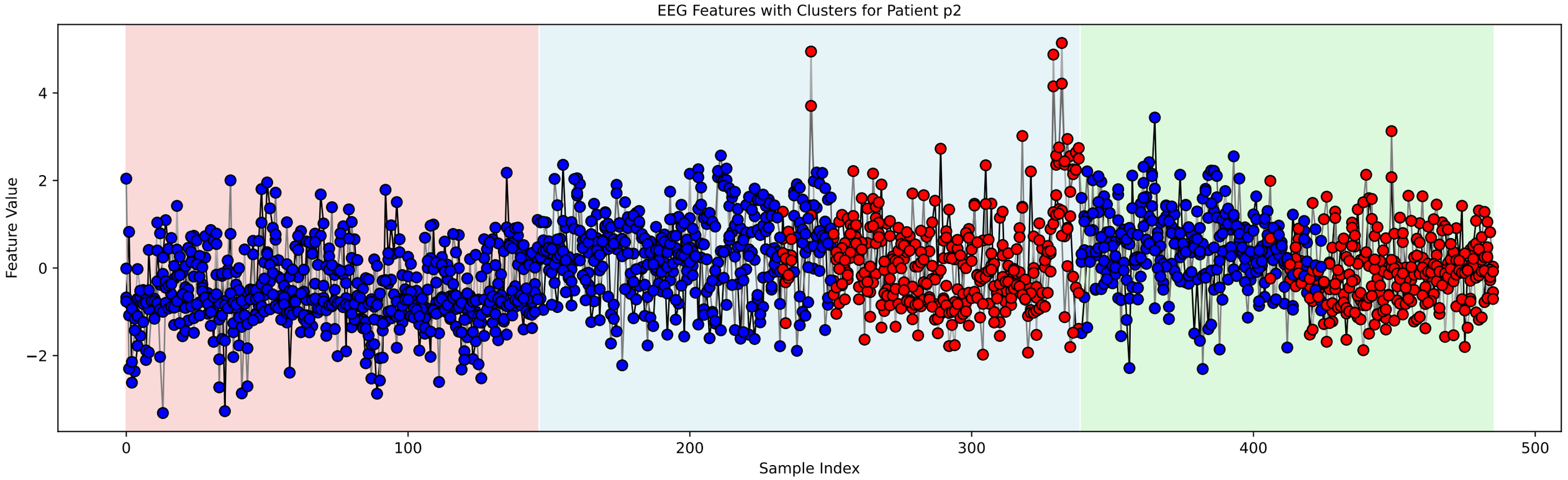
Feature Contribution for Patient p29 (PCA Loadings)

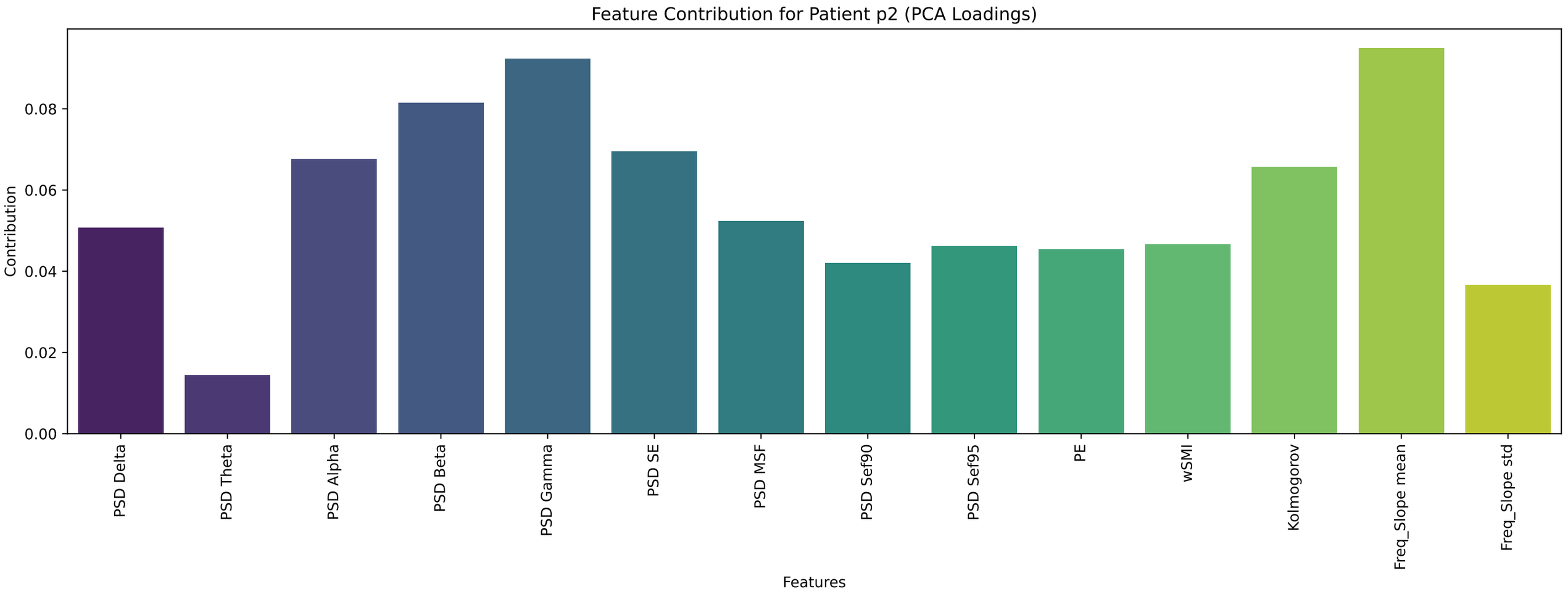
Contribution

PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std

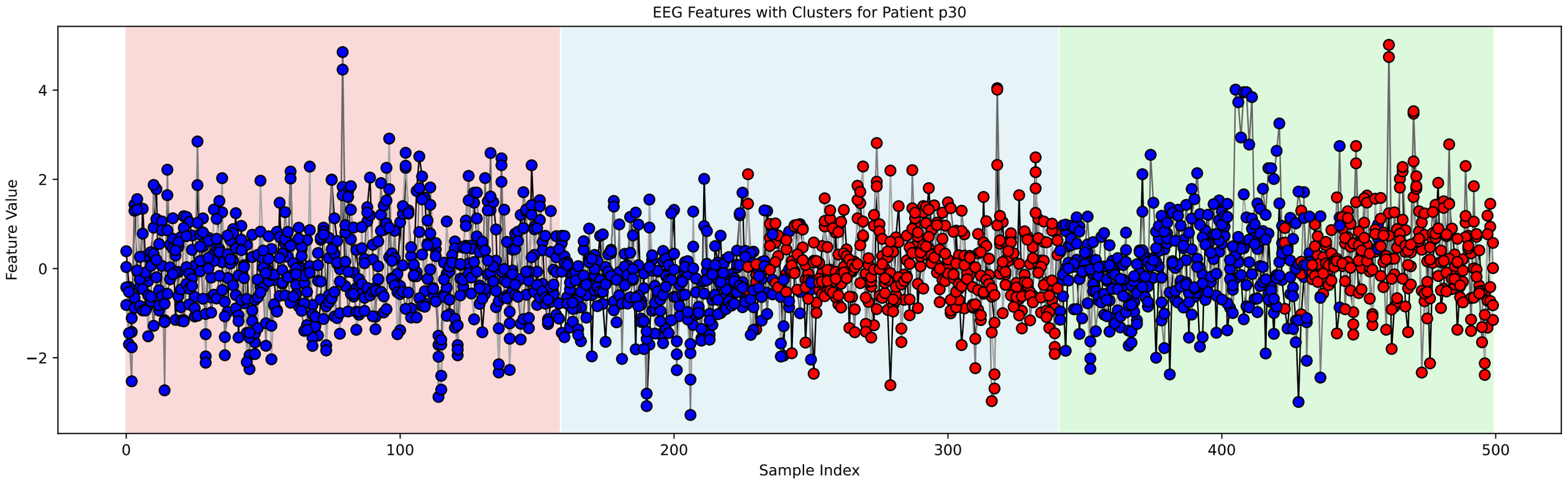
Features

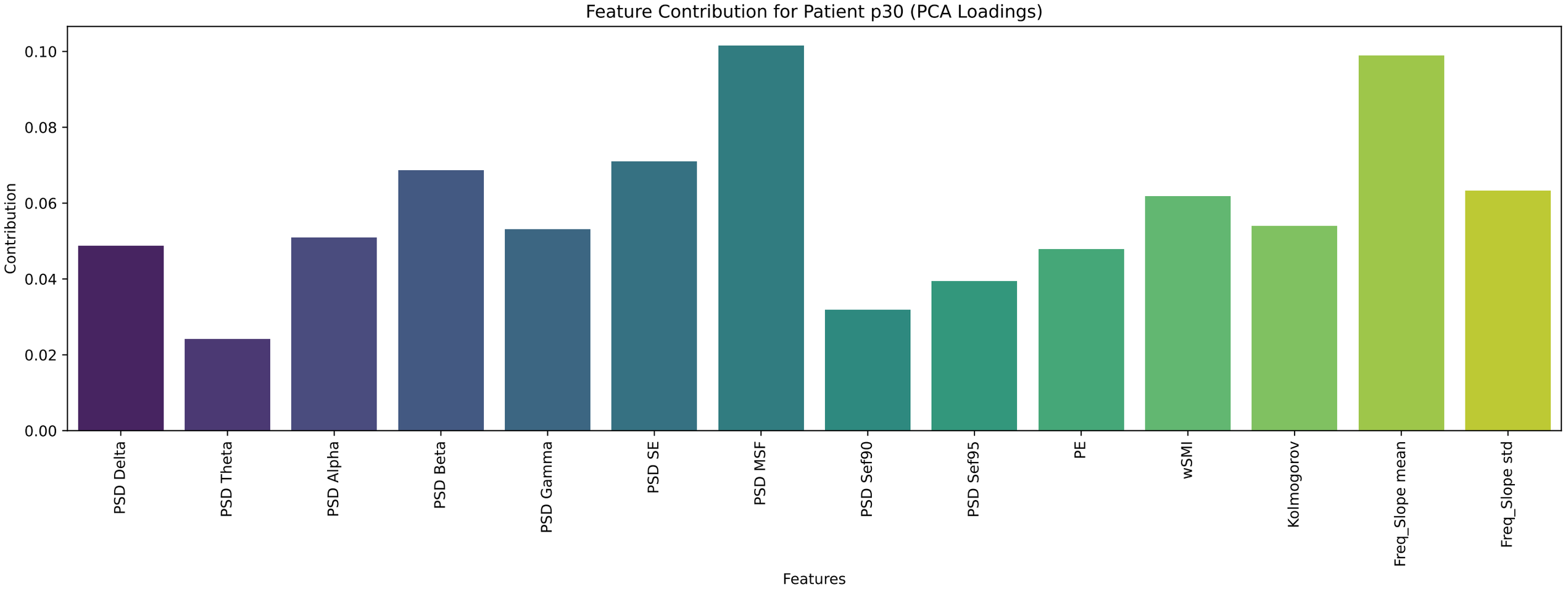

Clusters for Patient p2
8
6
4
2
0
−2
−4
−6
−8
−500
−250
0
250
500
750
1000

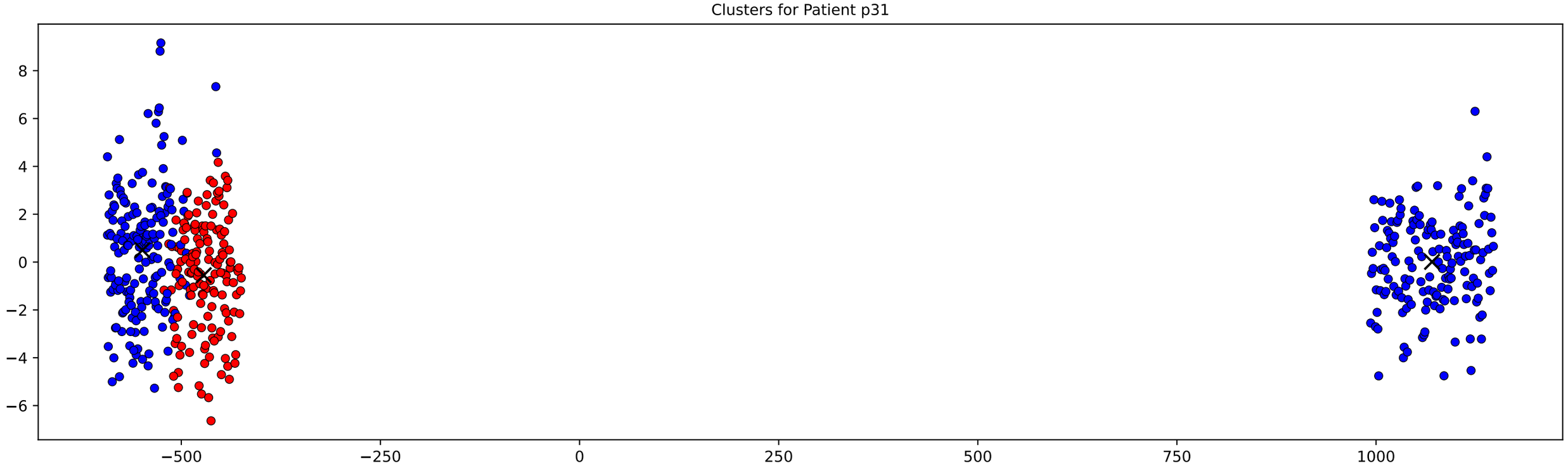

EEG Features with Clusters for Patient p2
Feature Value
4
2
0
−2
0
100
200
300
400
500
Sample Index

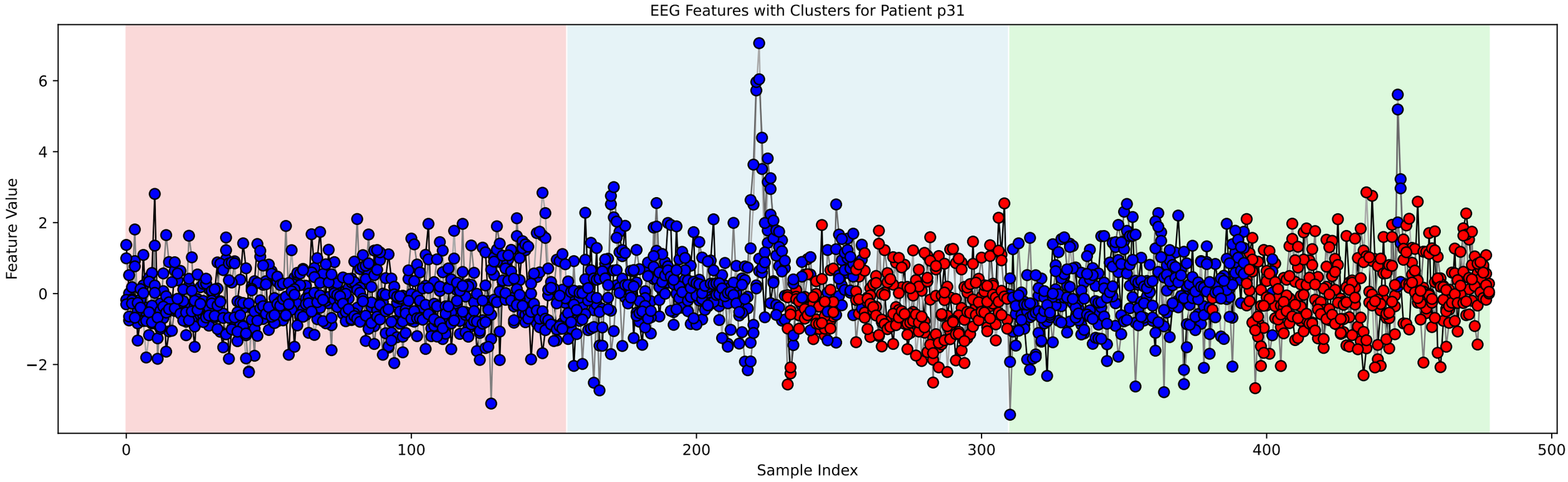

Feature Contribution for Patient p2 (PCA Loadings)
Contribution
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

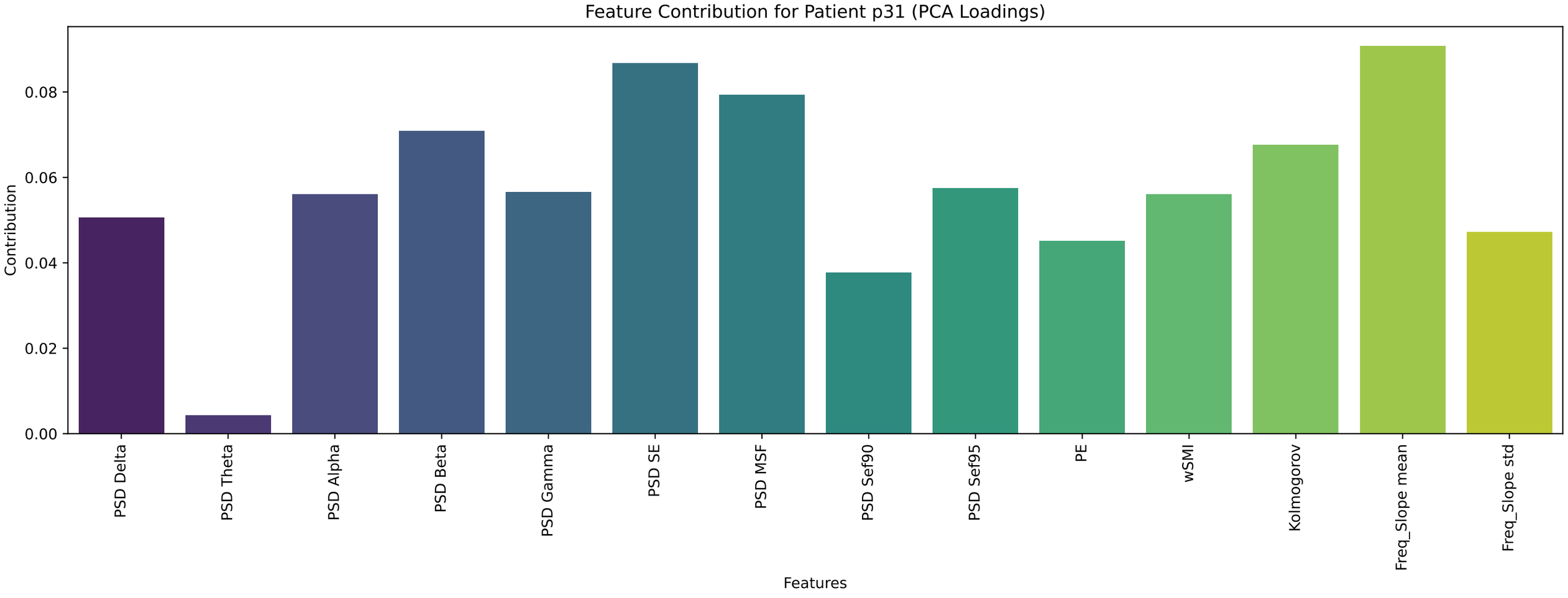
Clusters for Patient p30
8
6
4
2
0
−2
−4
−6
−500
−250
0
250
500
750
1000

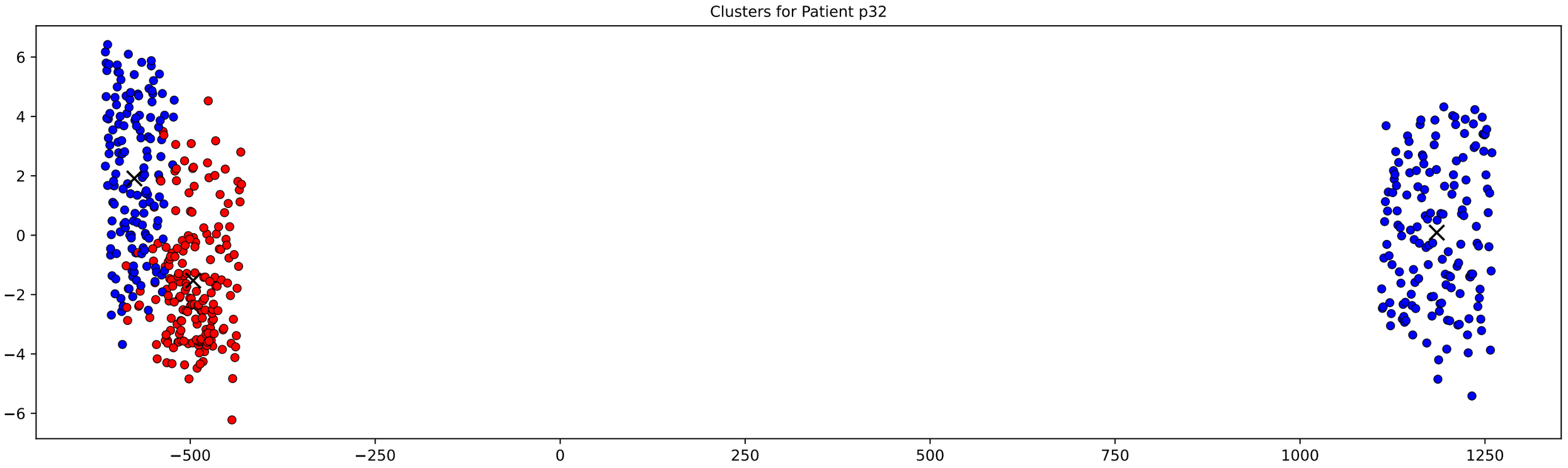

EEG Features with Clusters for Patient p30
Feature Value
4
2
0
−2
0
100
200
300
400
500
Sample Index

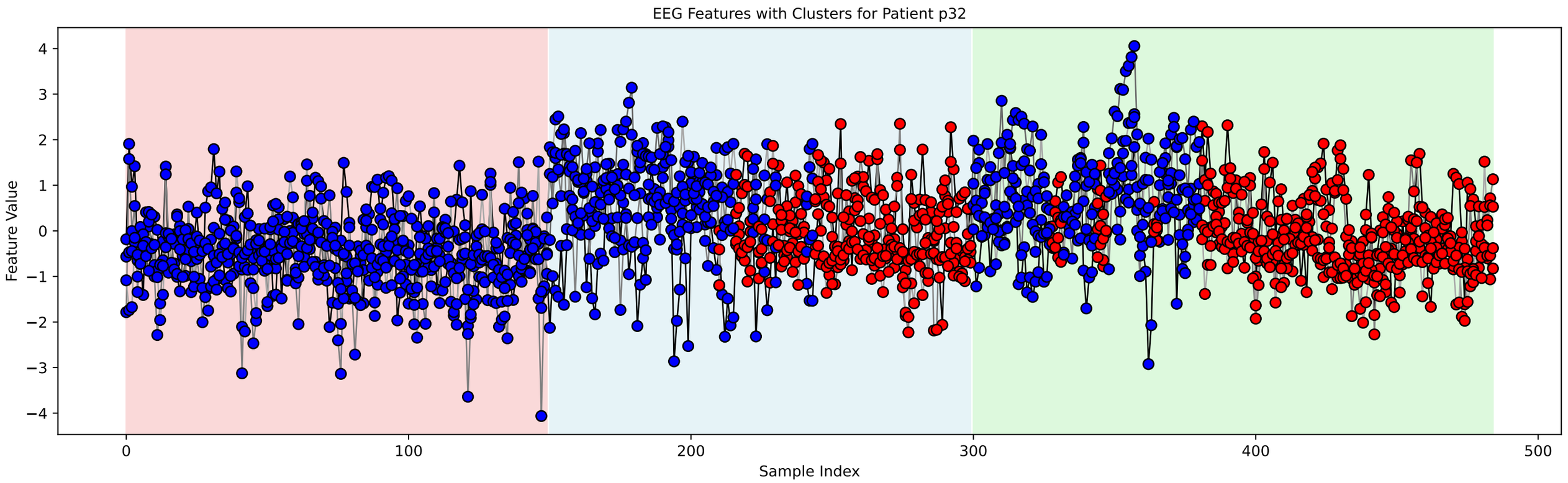

Feature Contribution for Patient p30 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

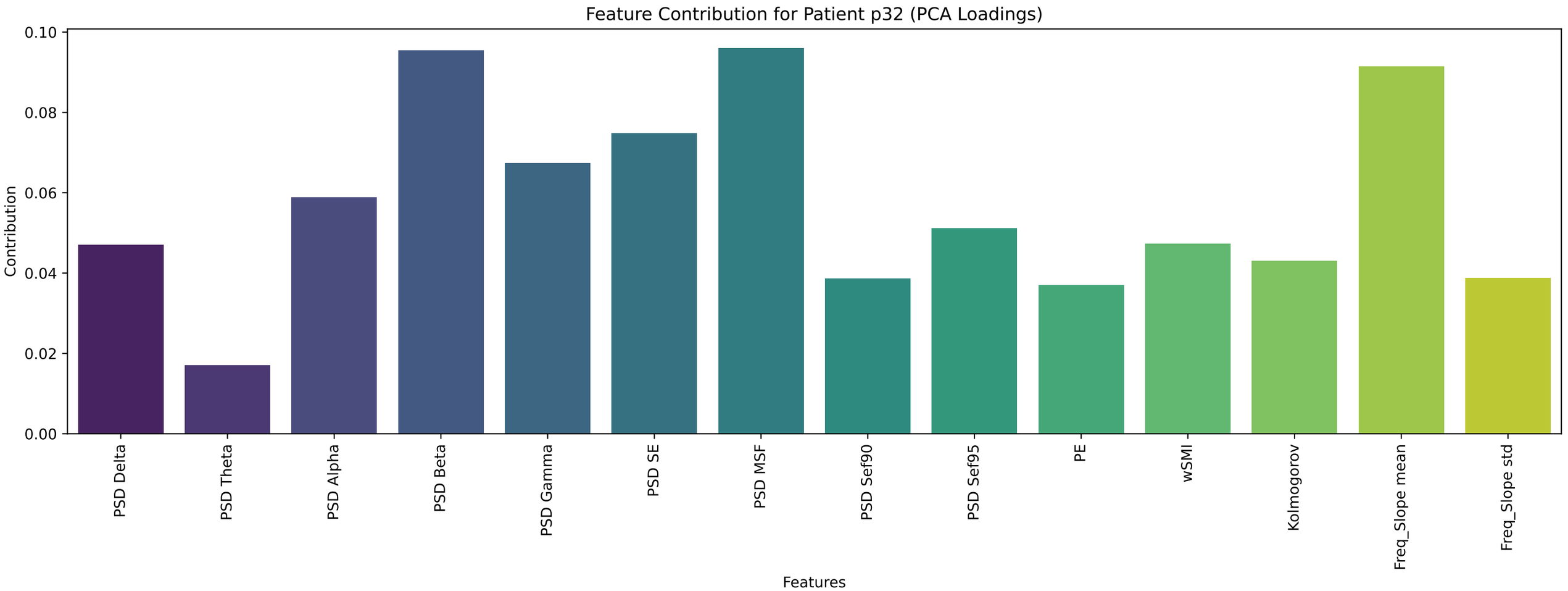

Clusters for Patient p31
8
6
4
2
0
−2
−4
−6
−500
−250
0
250
500
750
1000

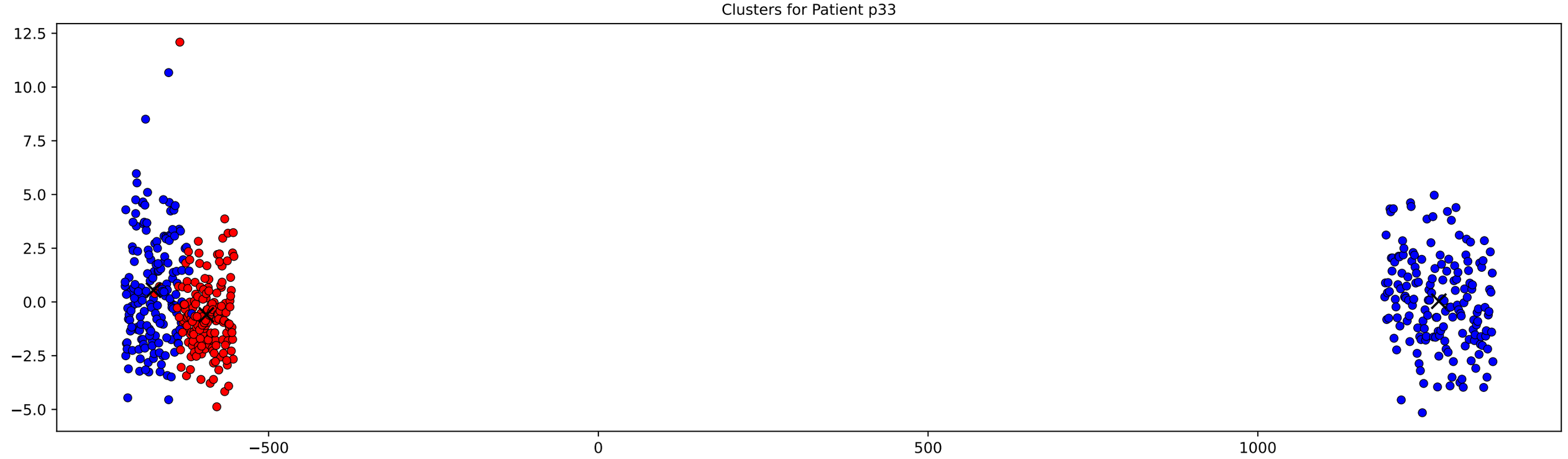

EEG Features with Clusters for Patient p31
Feature Value
6
4
2
0
−2
0
100
200
300
400
500
Sample Index

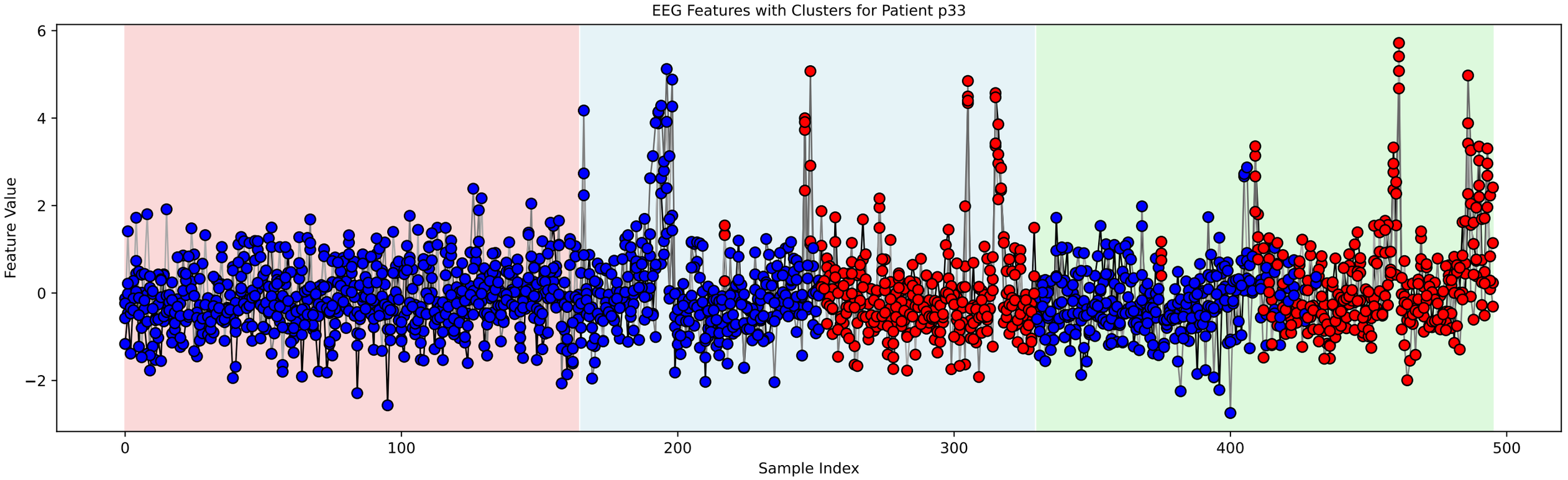

Feature Contribution for Patient p31 (PCA Loadings)
Contribution
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

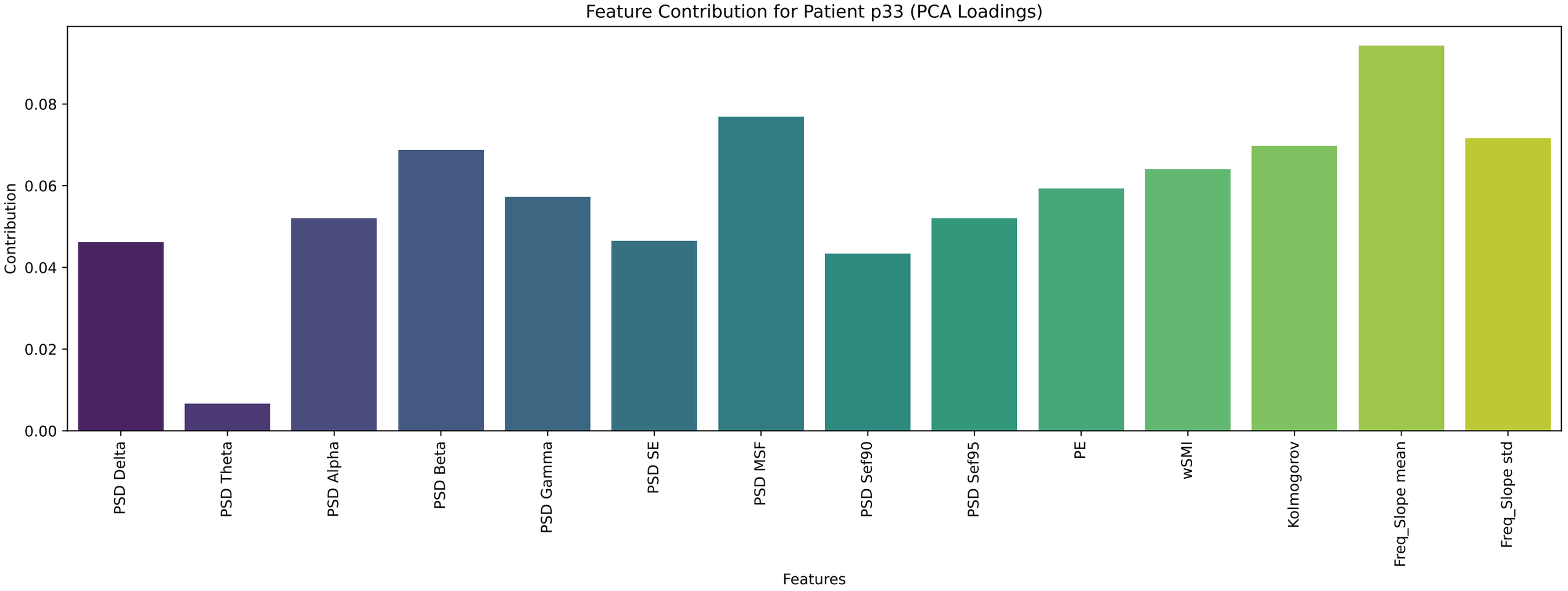

Clusters for Patient p32
6
4
2
0
−2
−4
−6
−500
−250
0
250
500
750
1000
1250

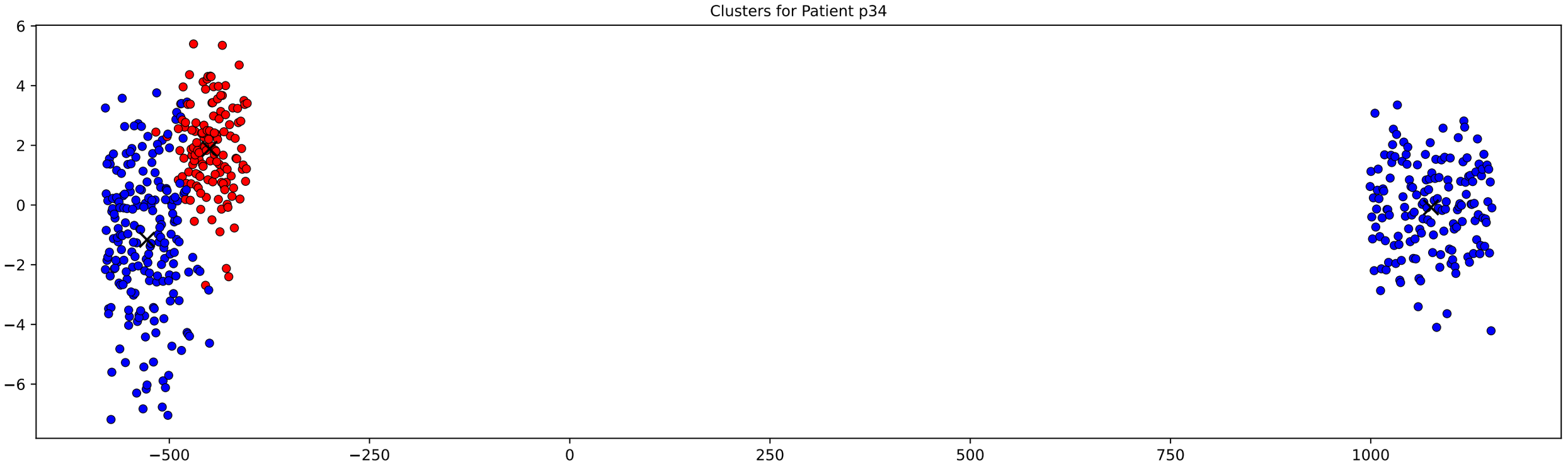

EEG Features with Clusters for Patient p32
Feature Value
4
3
2
1
0
−1
−2
−3
−4
0
100
200
300
400
500
Sample Index

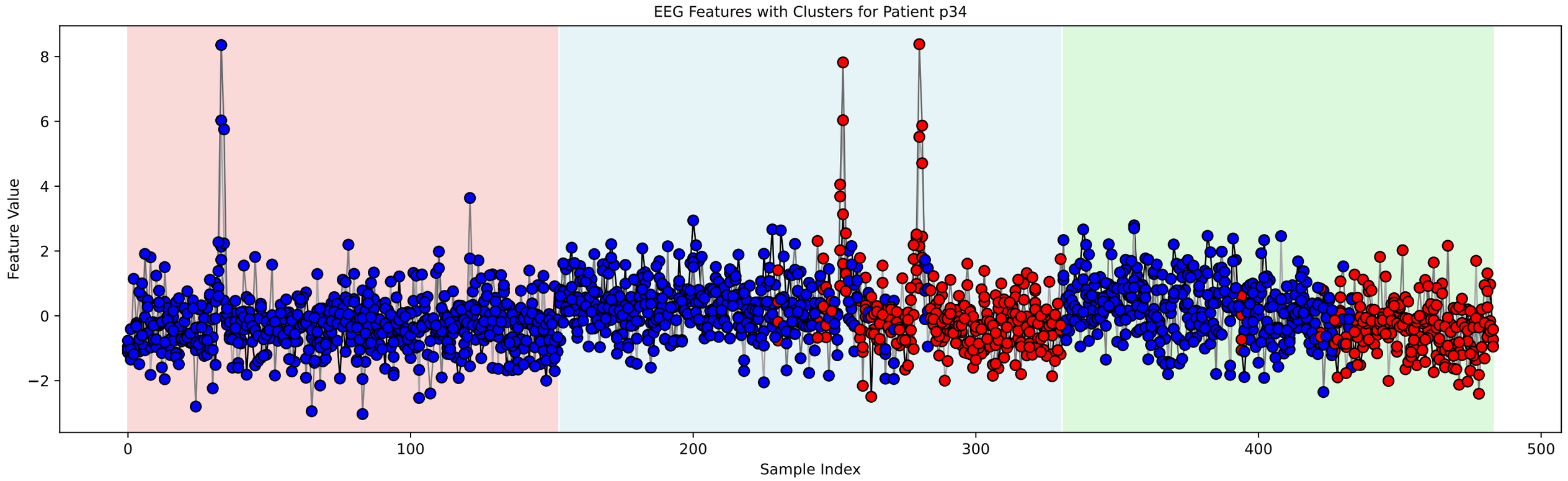

Feature Contribution for Patient p32 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

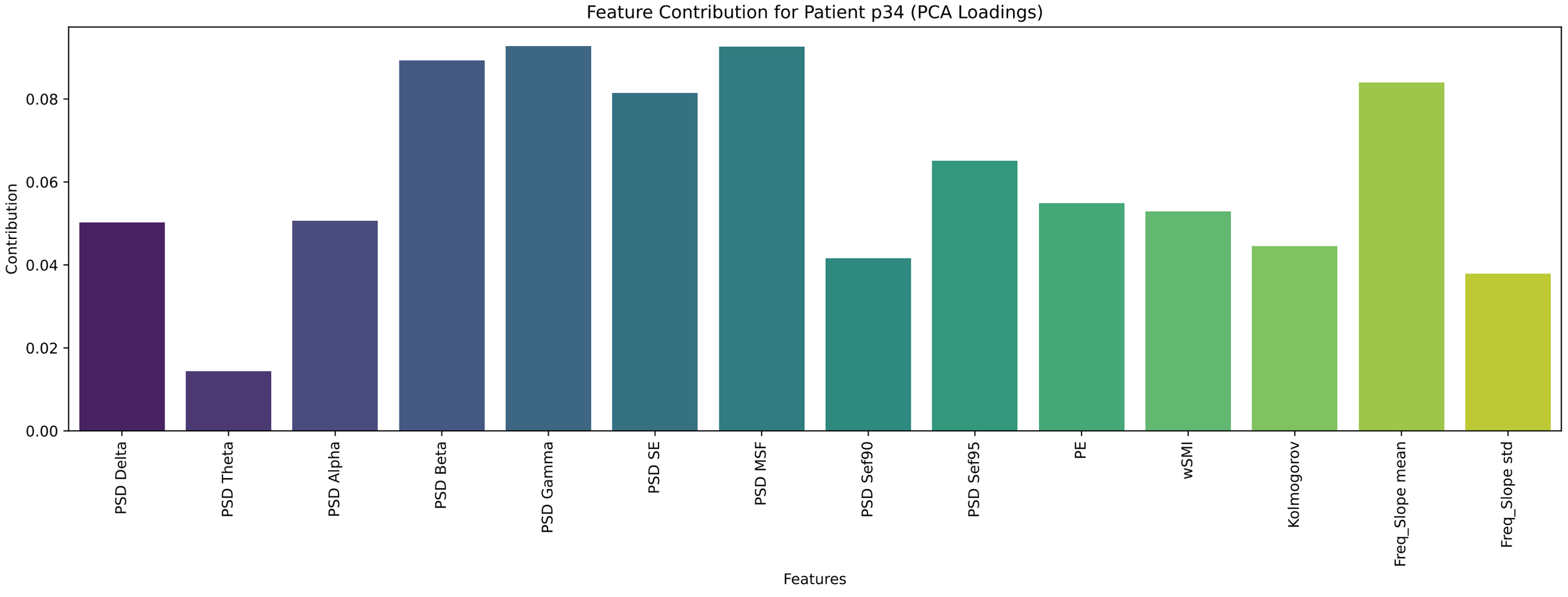

Clusters for Patient p33
12.5
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−500
0
500
1000


EEG Features with Clusters for Patient p33
Feature Value
6
4
2
0
−2
0
100
200
300
400
500
Sample Index


Feature Contribution for Patient p33 (PCA Loadings)
Contribution
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features


Clusters for Patient p34
6
4
2
0
−2
−4
−6
−500
−250
0
250
500
750
1000


EEG Features with Clusters for Patient p34
Feature Value
8
6
4
2
0
−2
0
100
200
300
400
500
Sample Index


Feature Contribution for Patient p34 (PCA Loadings)
Contribution
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

Clusters for Patient p35

EEG Features with Clusters for Patient p35

Feature Value

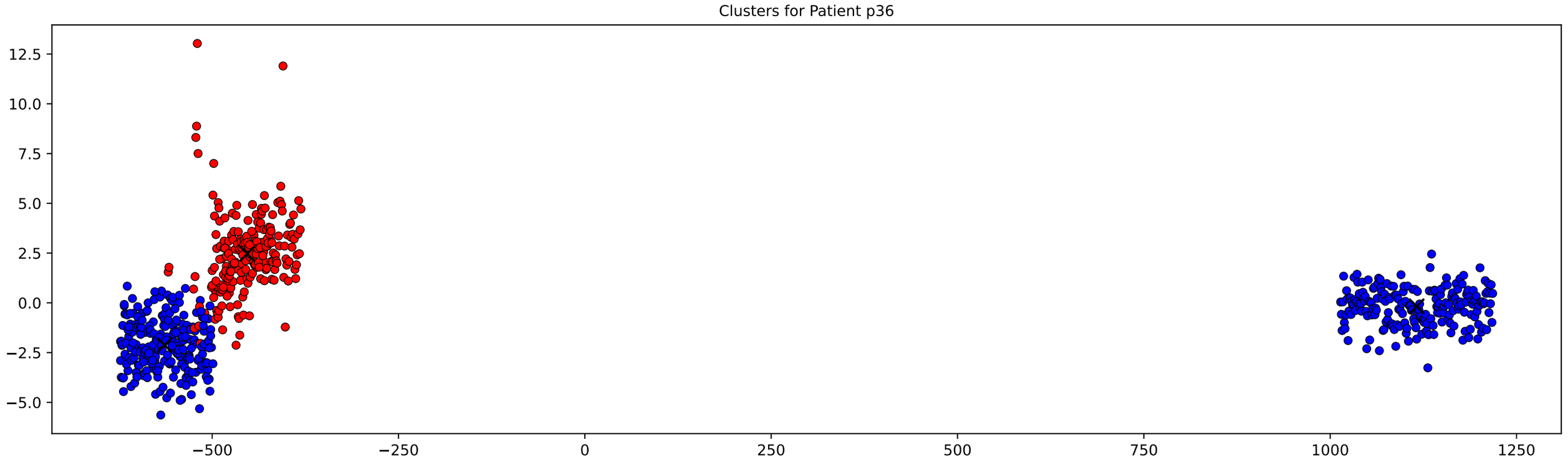
Sample Index

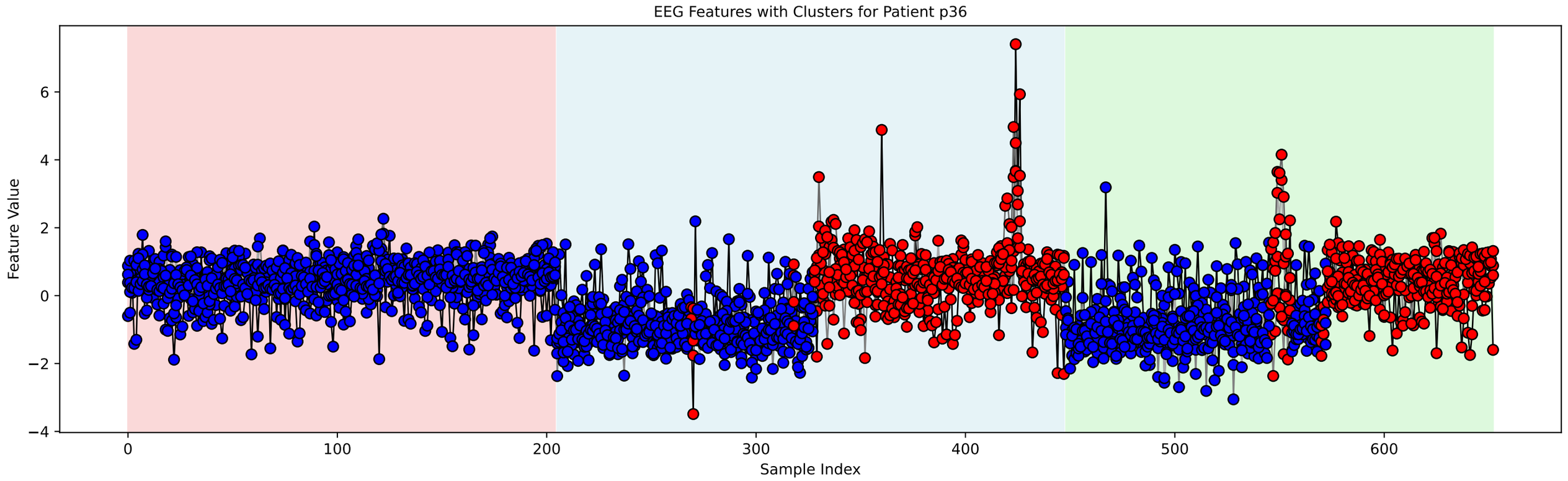
Feature Contribution for Patient p35 (PCA Loadings)

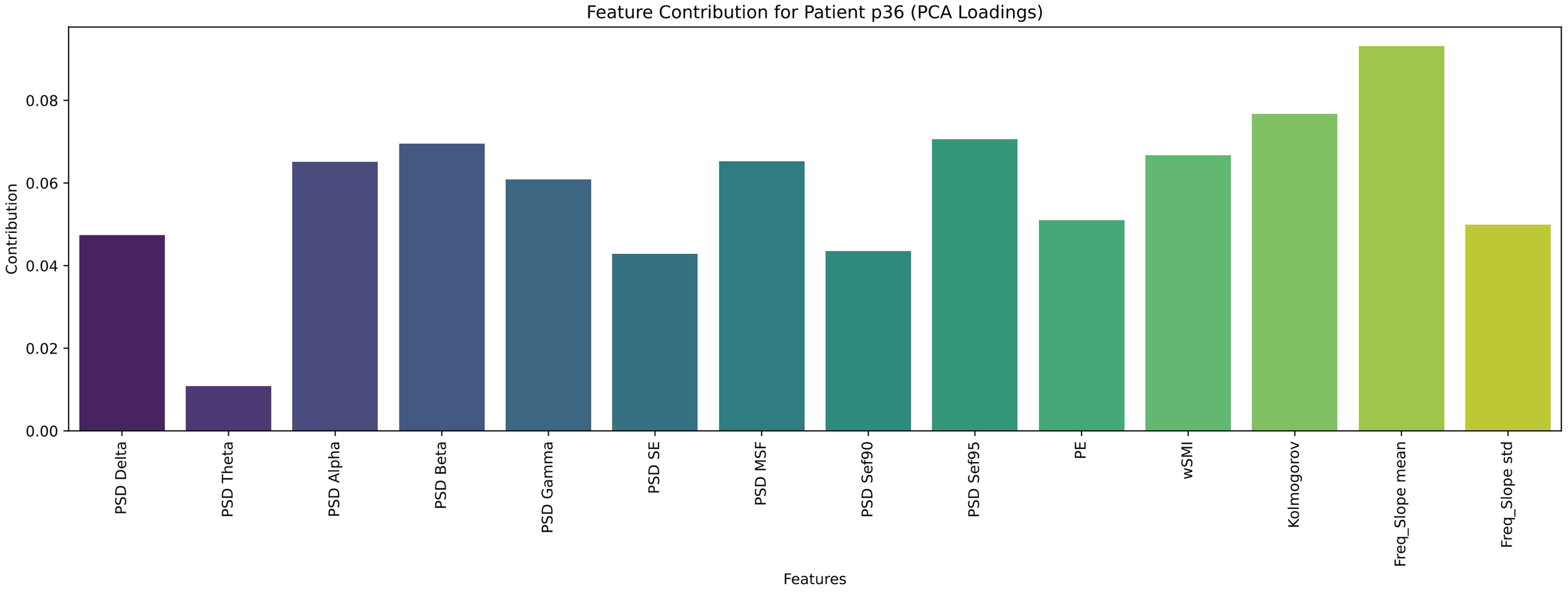
Contribution

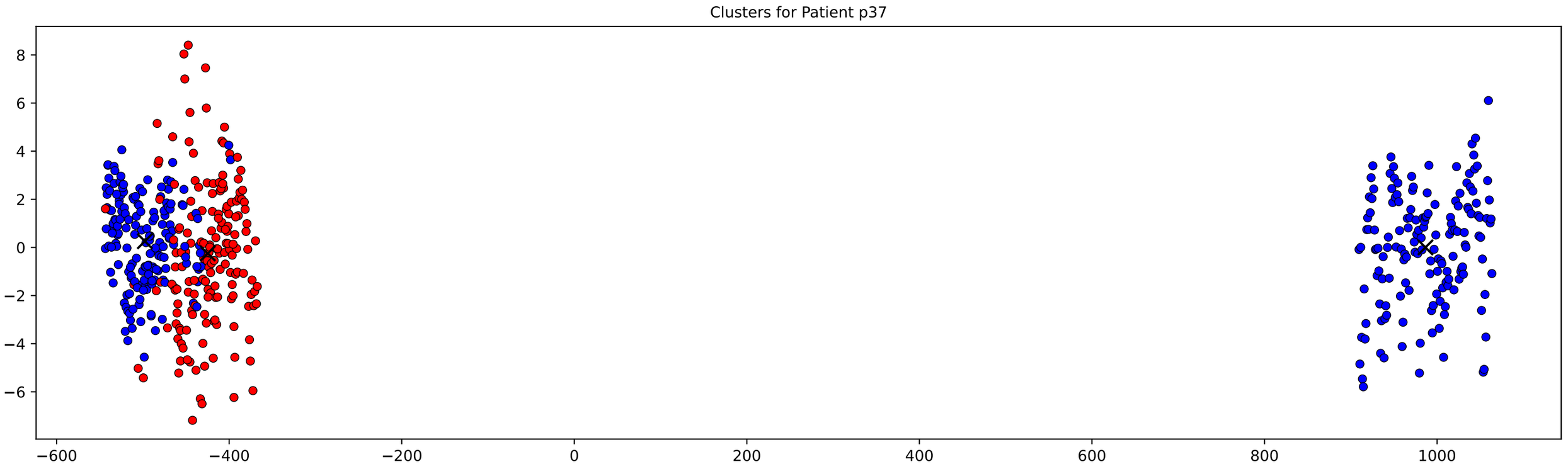
Features

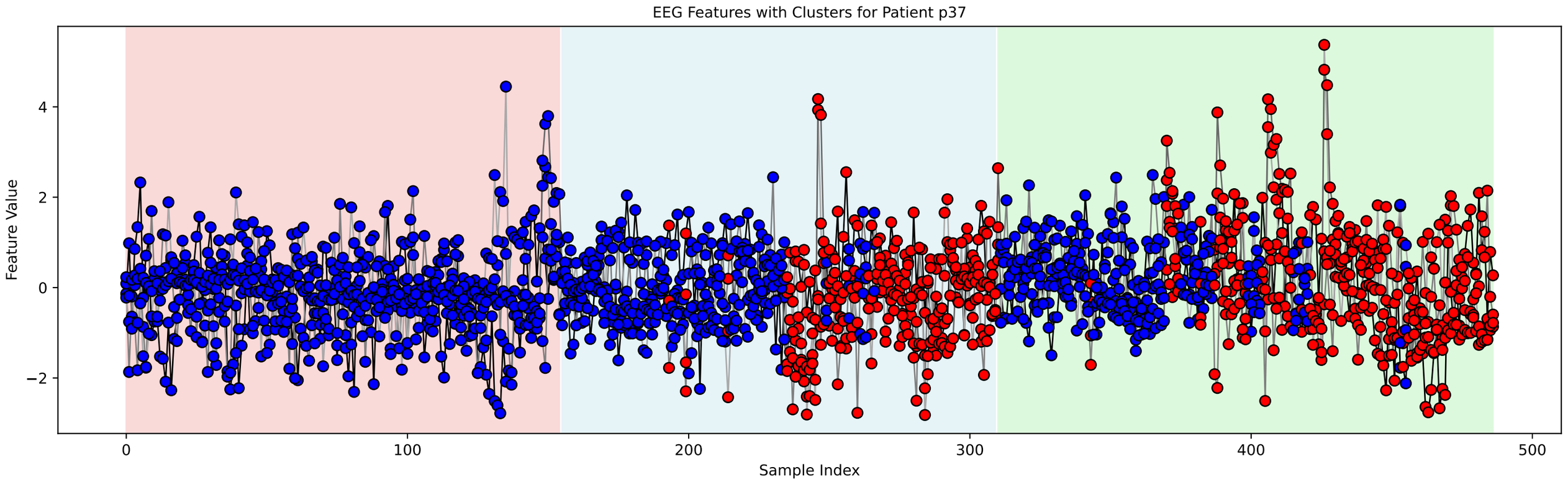
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std

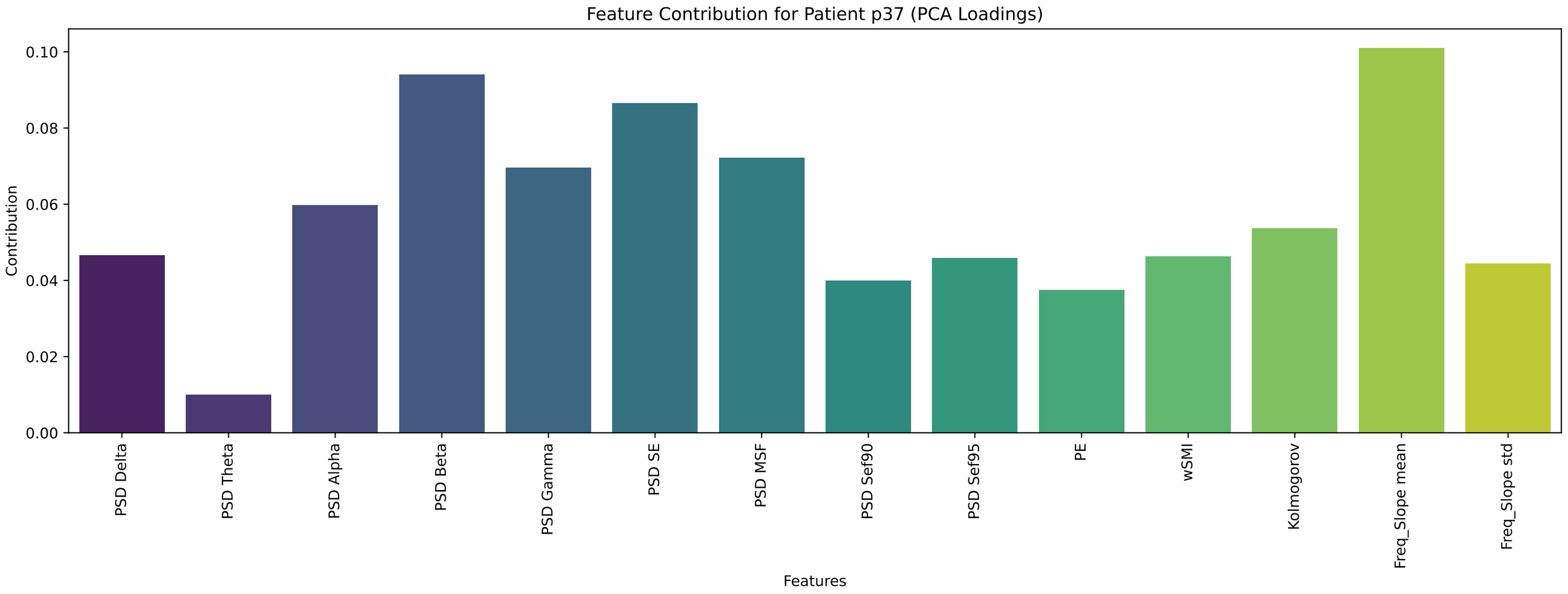

Clusters for Patient p36
12.5
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−500
−250
0
250
500
750
1000
1250

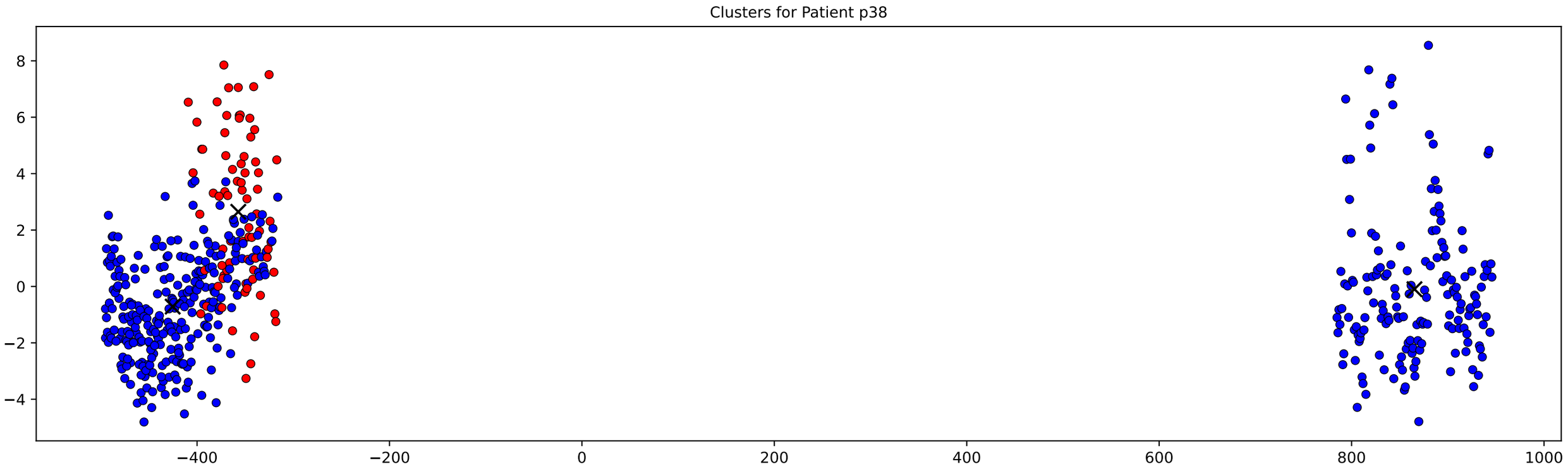

EEG Features with Clusters for Patient p36
Feature Value
6
4
2
0
−2
−4
0
100
200
300
400
500
600
Sample Index

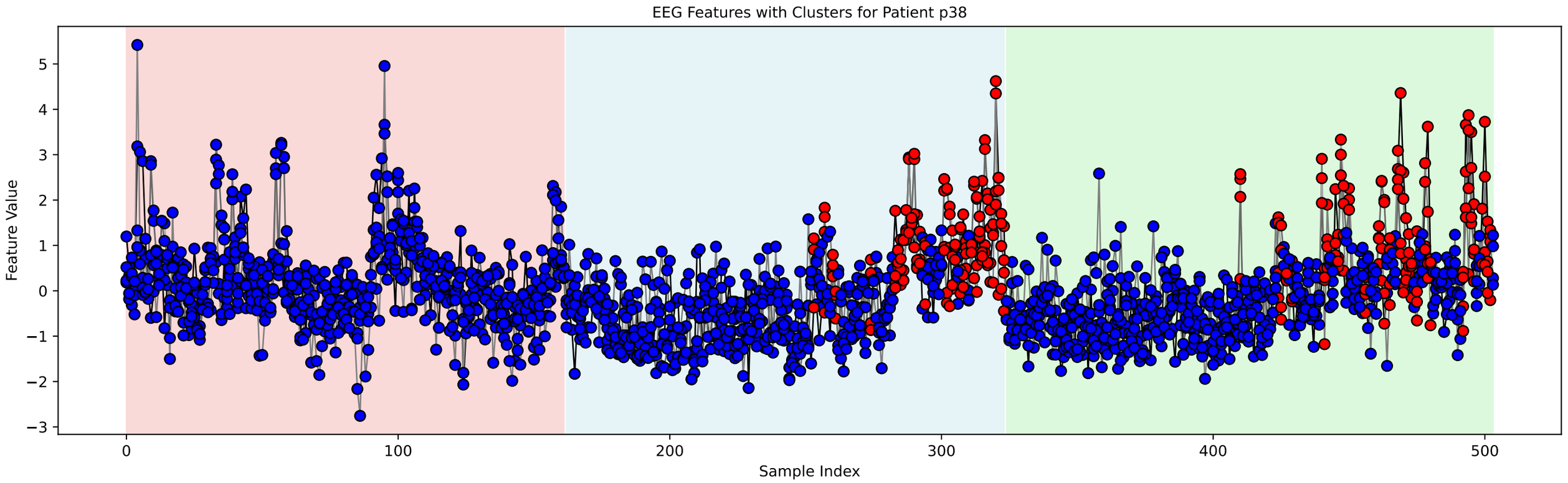

Feature Contribution for Patient p36 (PCA Loadings)
Contribution
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

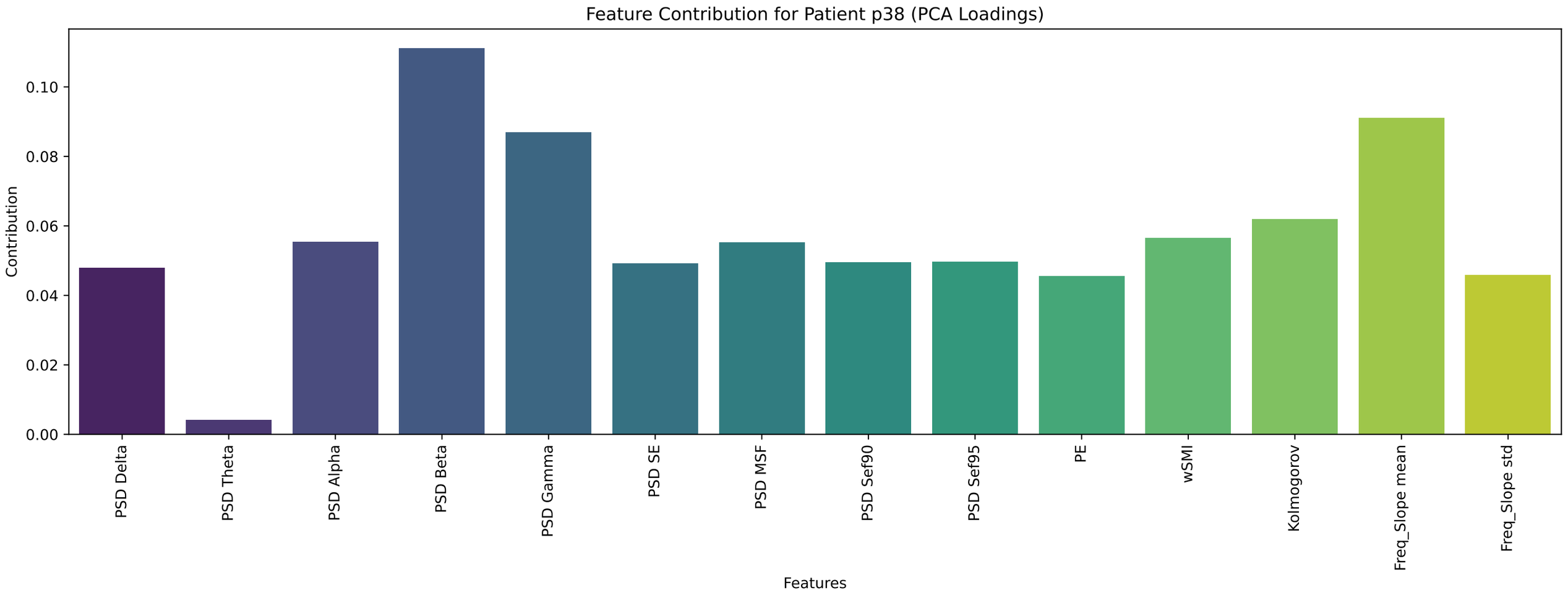

Clusters for Patient p37
8
6
4
2
0
−2
−4
−6
−600
−400
−200
0
200
400
600
800
1000

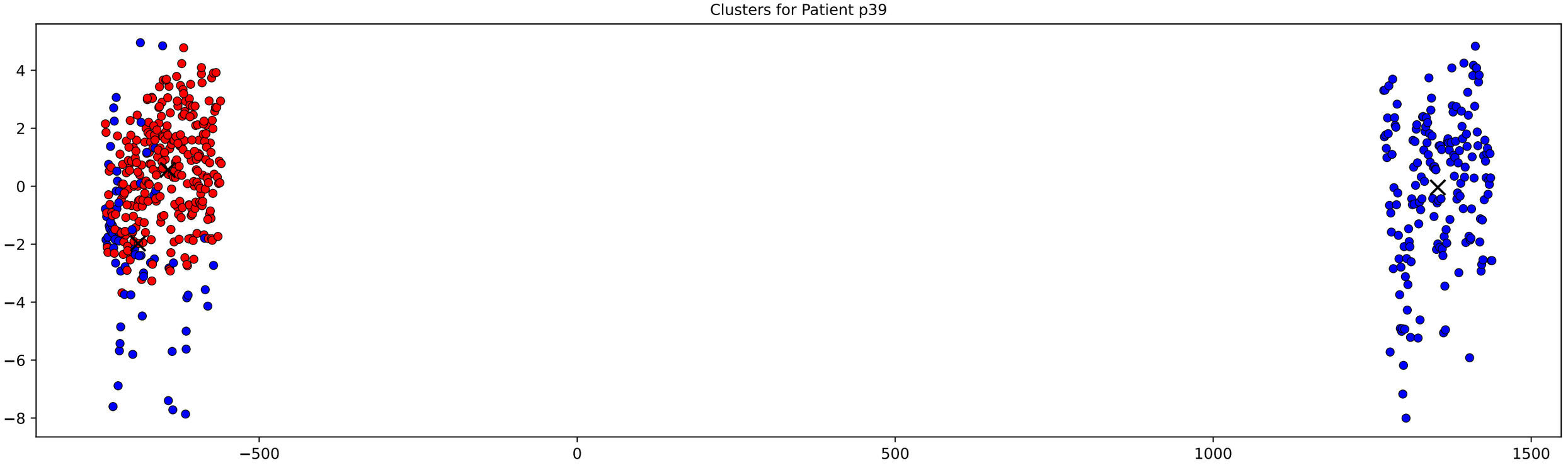

EEG Features with Clusters for Patient p37
Feature Value
4
2
0
−2
0
100
200
300
400
500
Sample Index

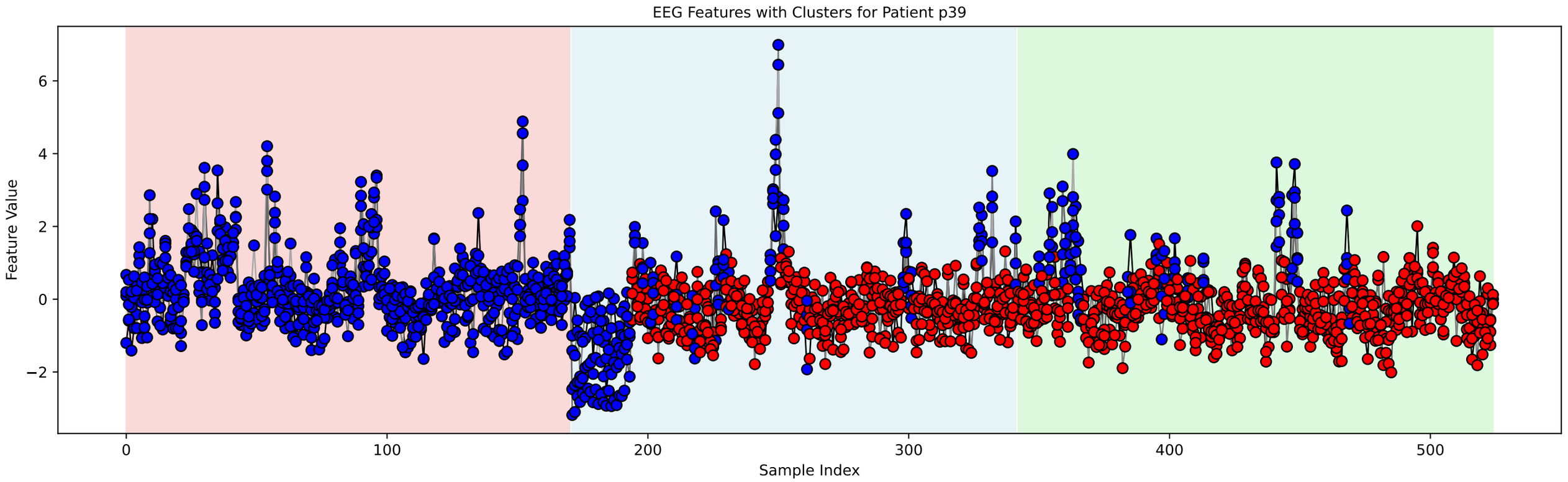

Feature Contribution for Patient p37 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

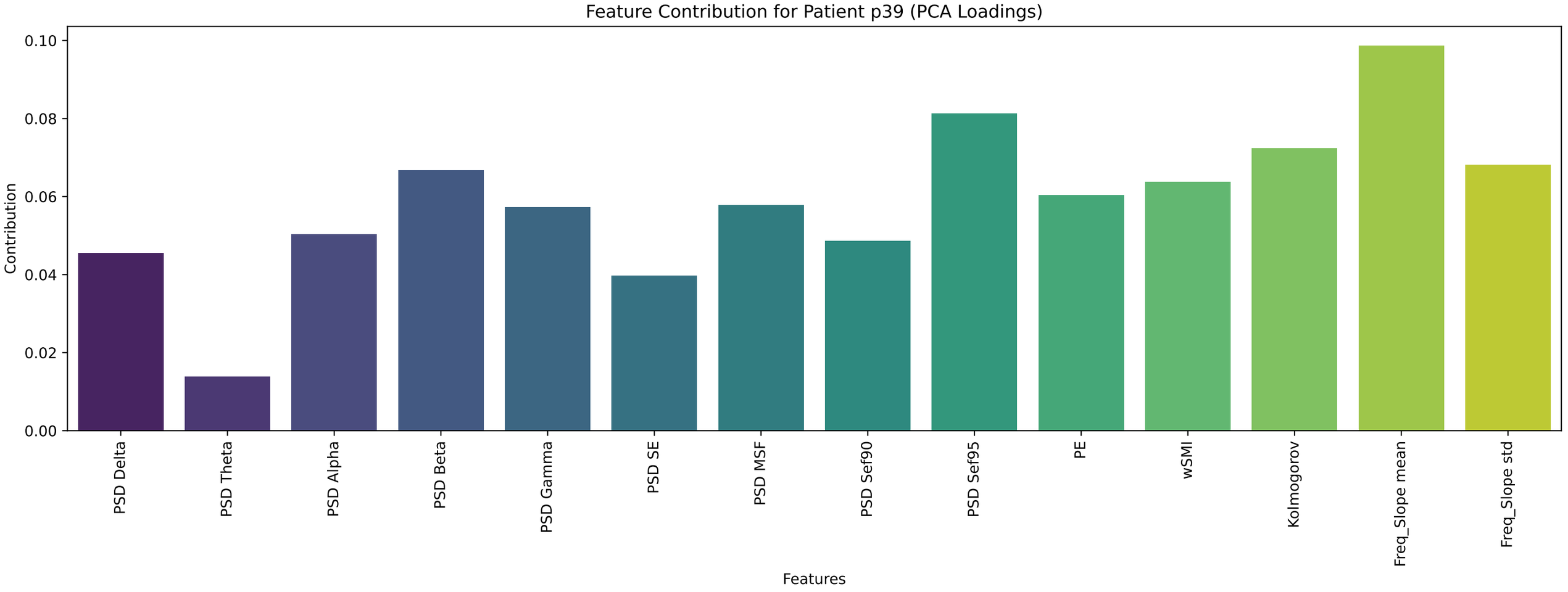

Clusters for Patient p38
8
6
4
2
0
−2
−4
−400
−200
0
200
400
600
800
1000

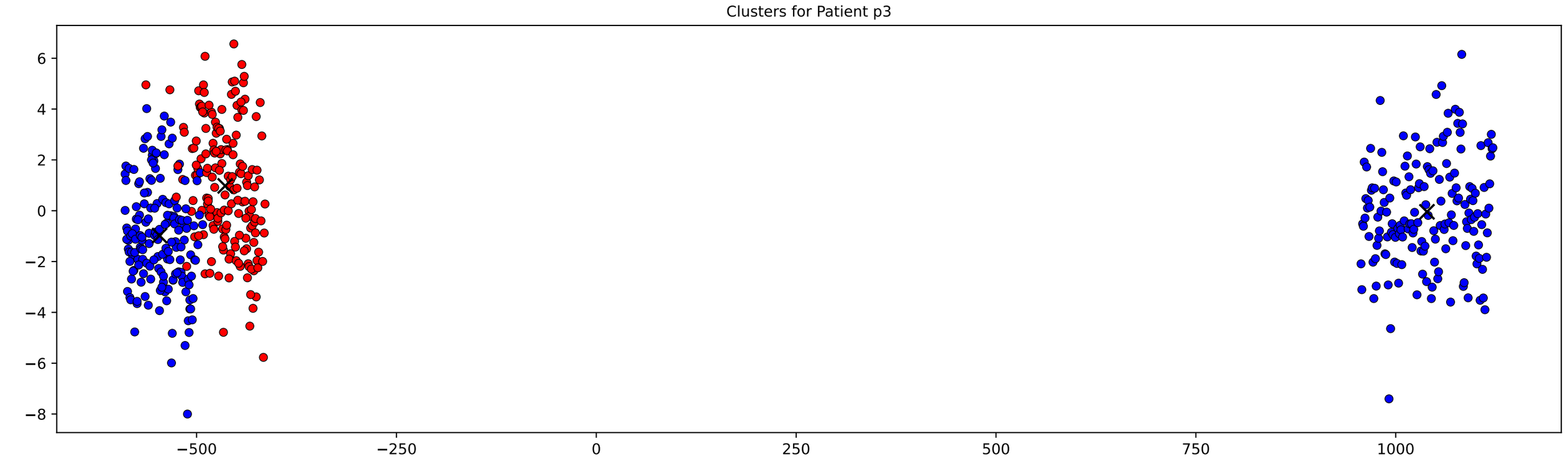

EEG Features with Clusters for Patient p38
Feature Value
5
4
3
2
1
0
−1
−2
−3
0
100
200
300
400
500
Sample Index

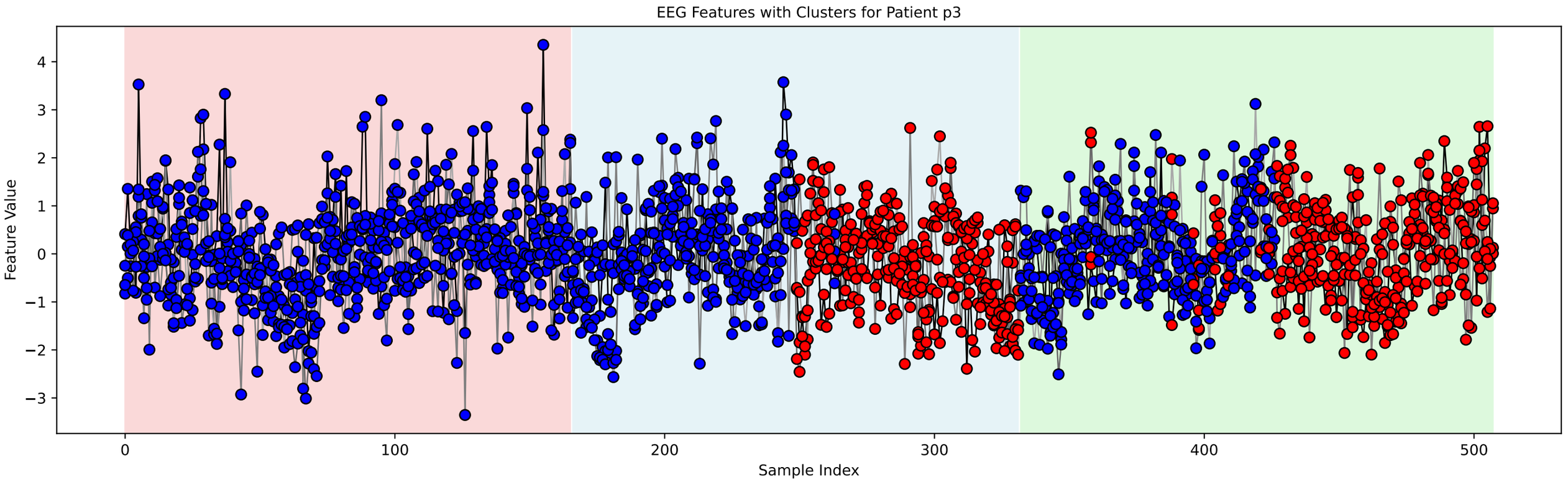

Feature Contribution for Patient p38 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

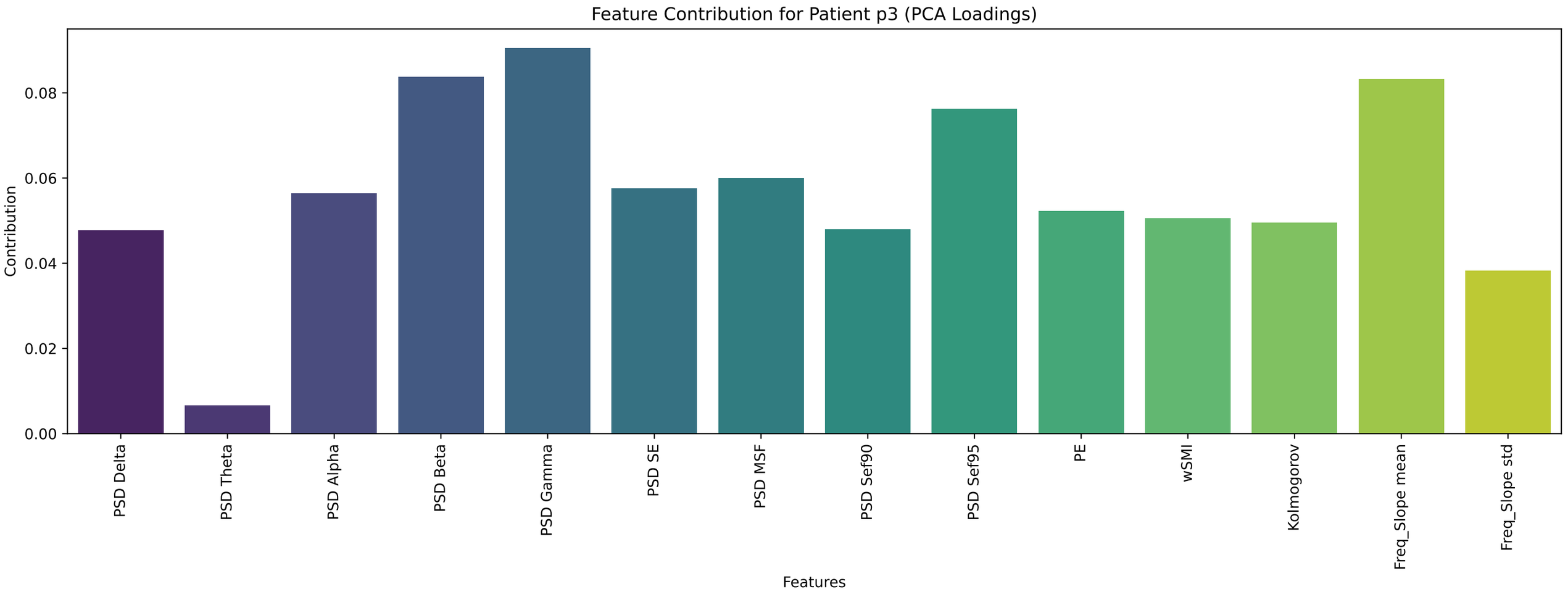

Clusters for Patient p39
4
2
0
−2
−4
−6
−8
−500
0
500
1000
1500

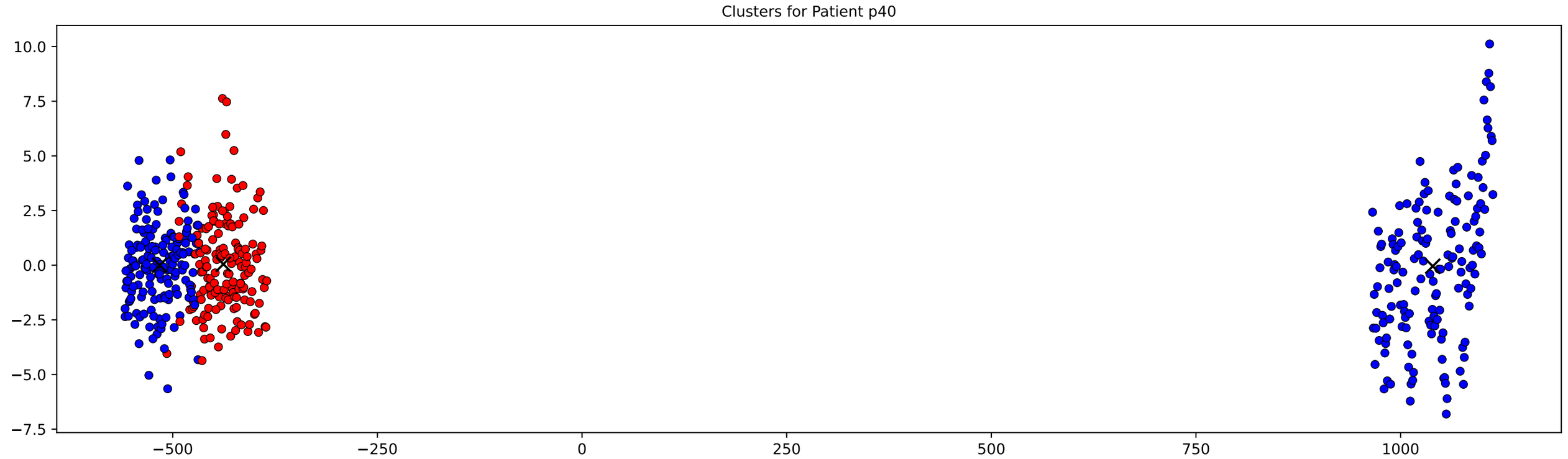

EEG Features with Clusters for Patient p39
Feature Value
6
4
2
0
−2
0
100
200
300
400
500
Sample Index

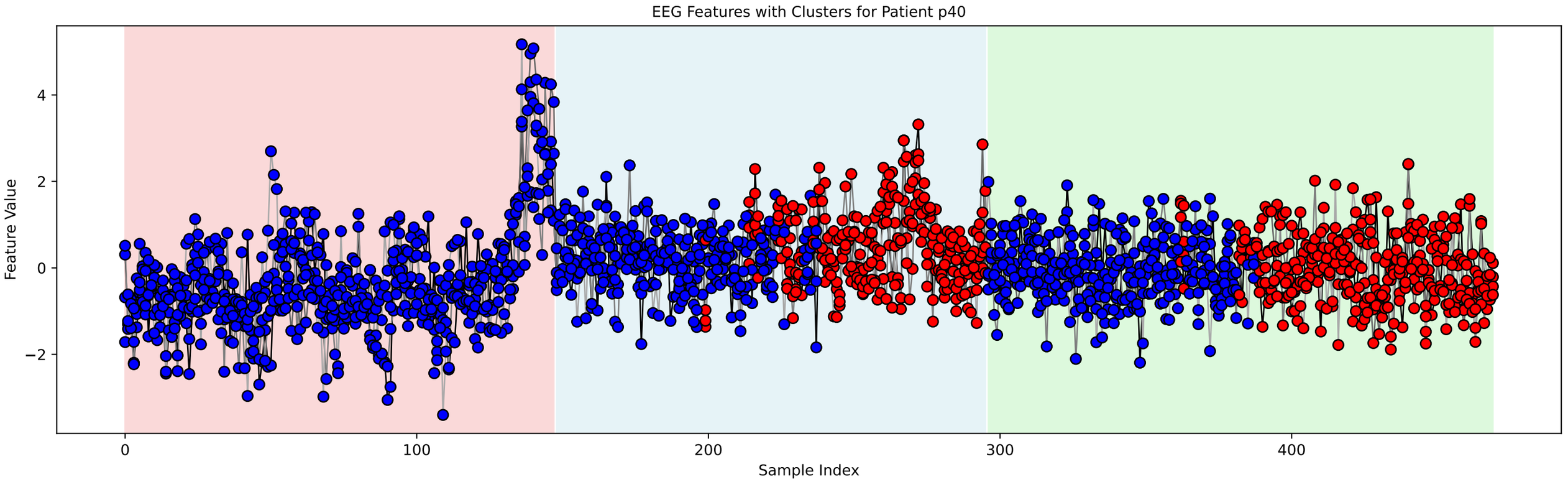

Feature Contribution for Patient p39 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

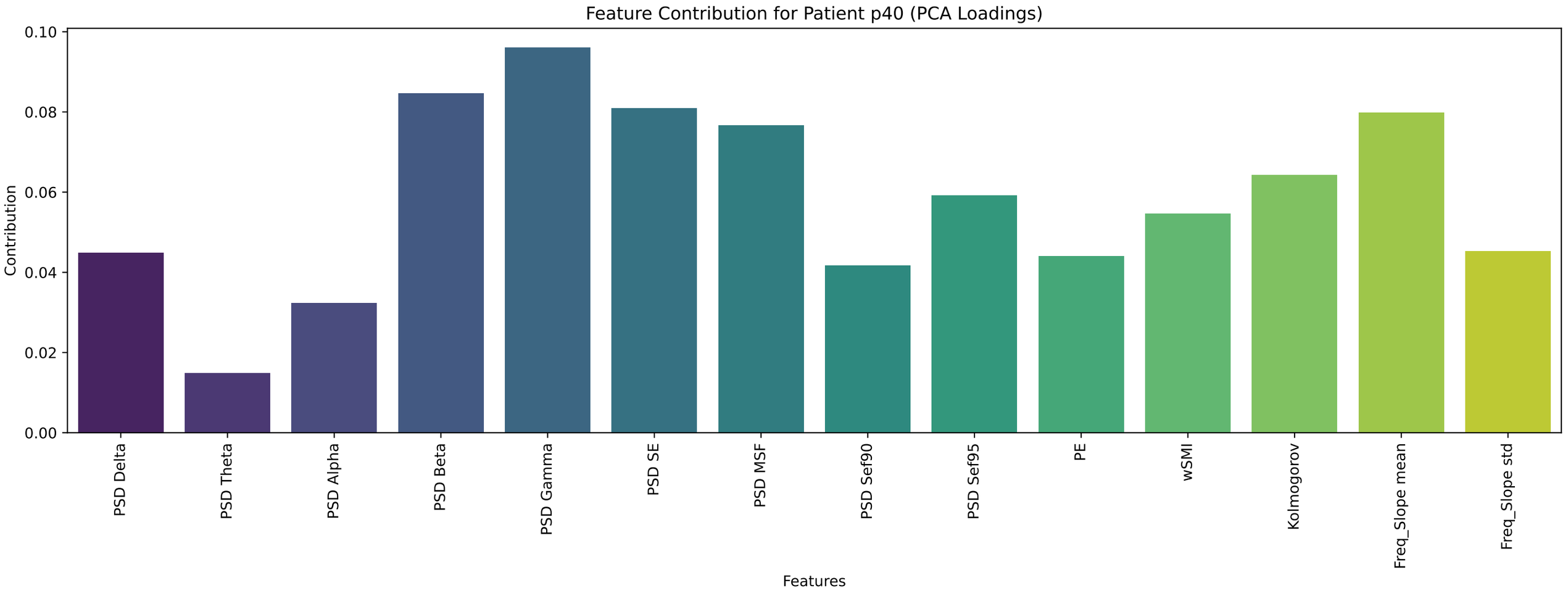

Clusters for Patient p3
6
4
2
0
−2
−4
−6
−8
−500
−250
0
250
500
750
1000

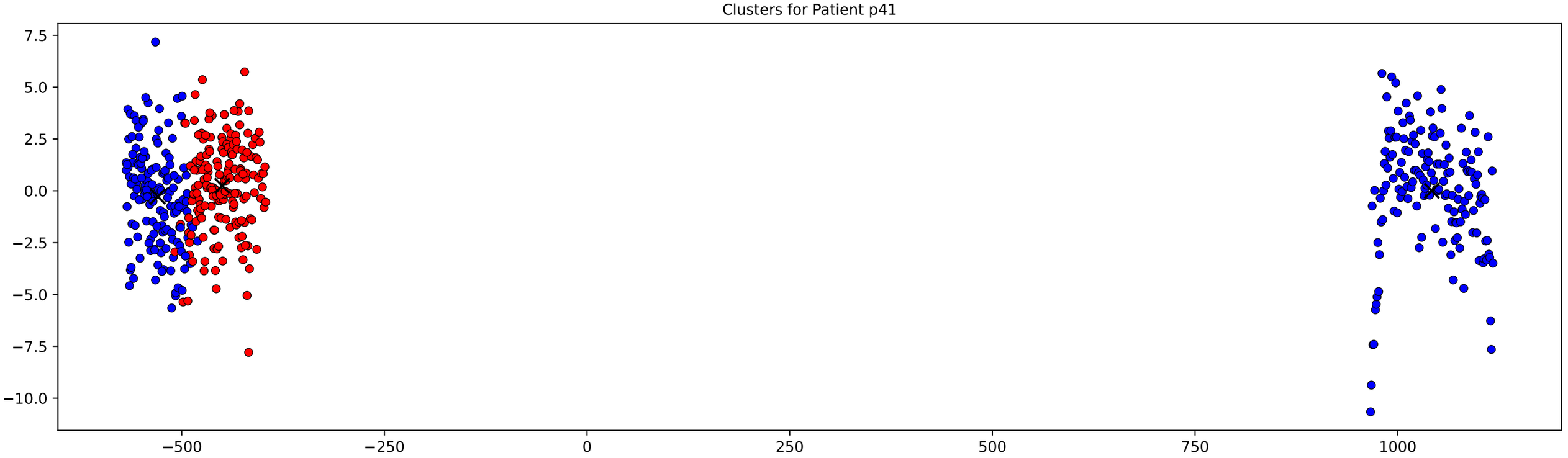

EEG Features with Clusters for Patient p3
Feature Value
4
3
2
1
0
−1
−2
−3
0
100
200
300
400
500
Sample Index

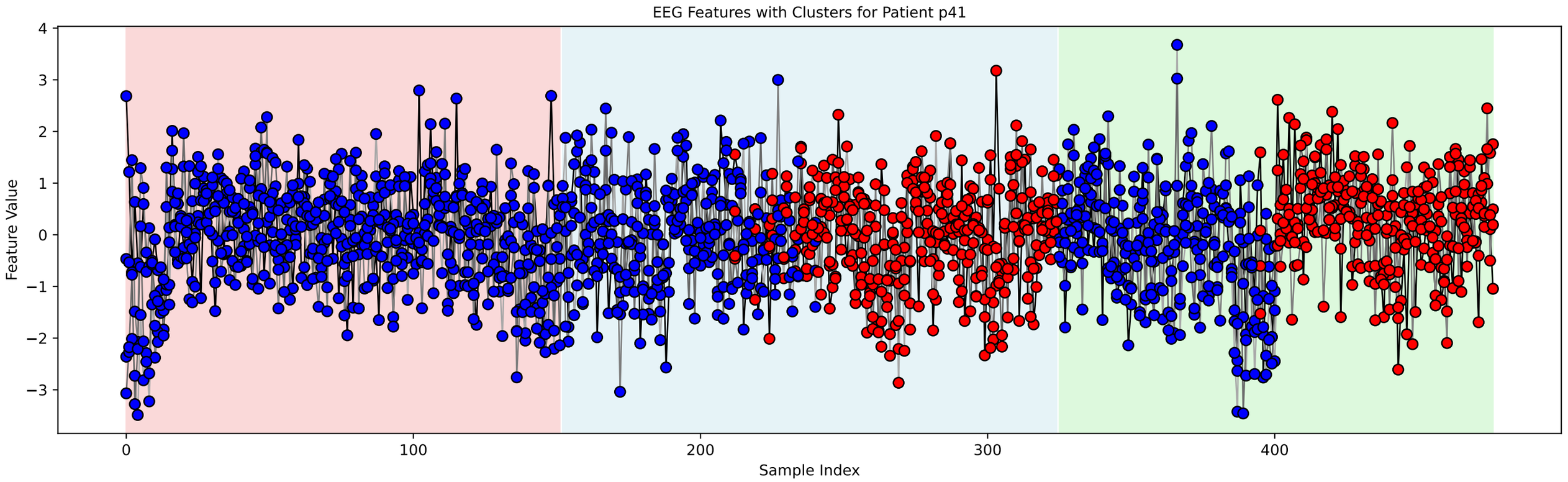

Feature Contribution for Patient p3 (PCA Loadings)
Contribution
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

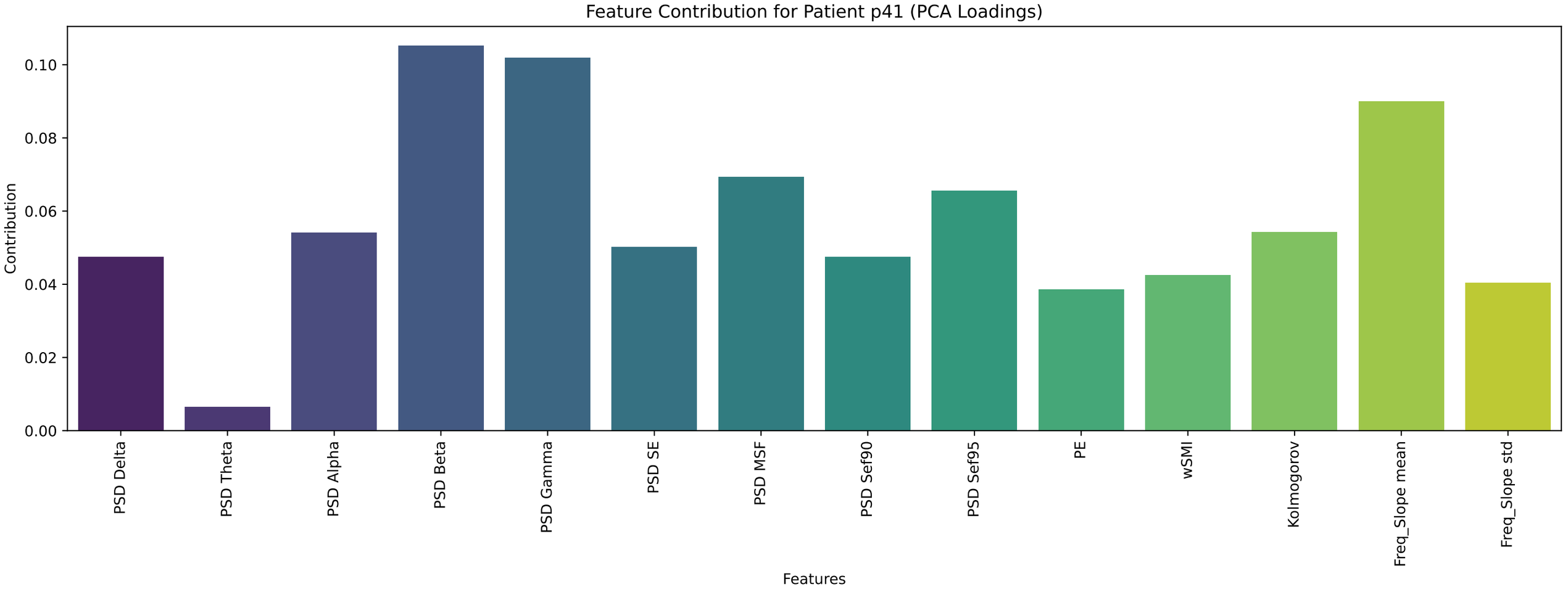

Clusters for Patient p40
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−500
−250
0
250
500
750
1000

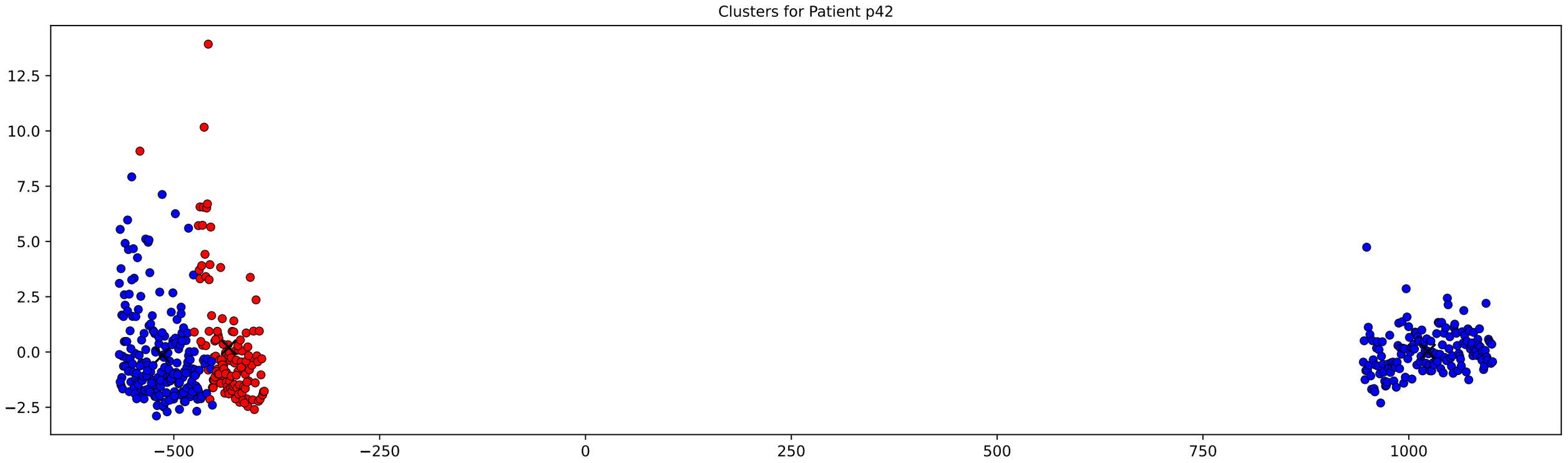

EEG Features with Clusters for Patient p40
Feature Value
4
2
0
−2
0
100
200
300
400
Sample Index

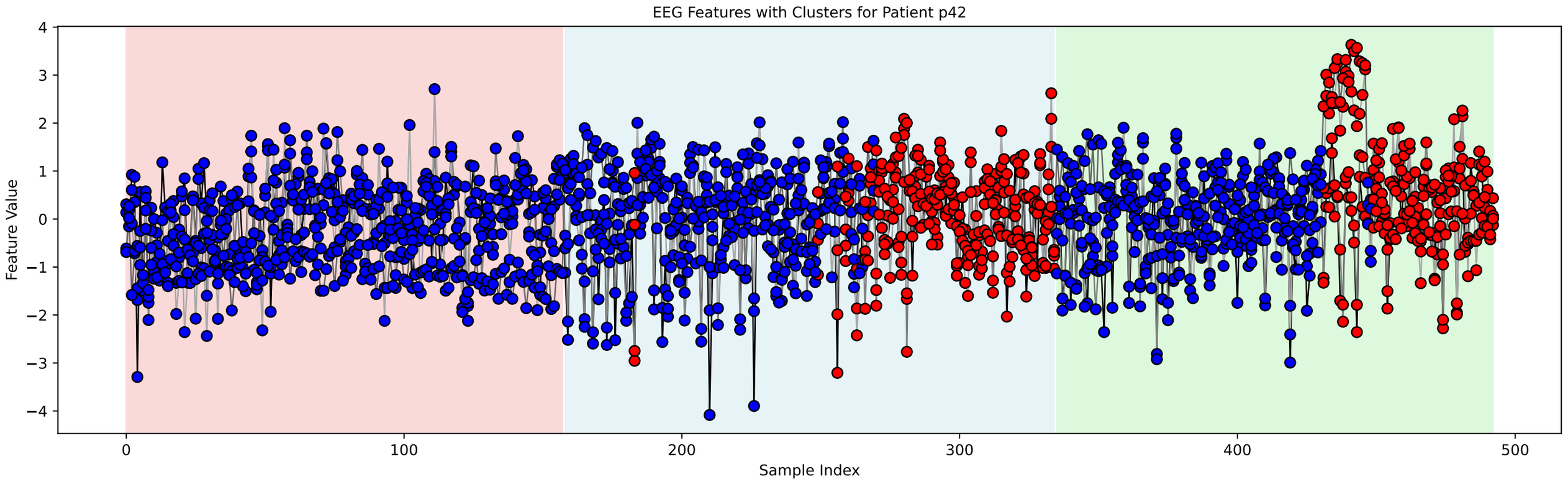

Feature Contribution for Patient p40 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

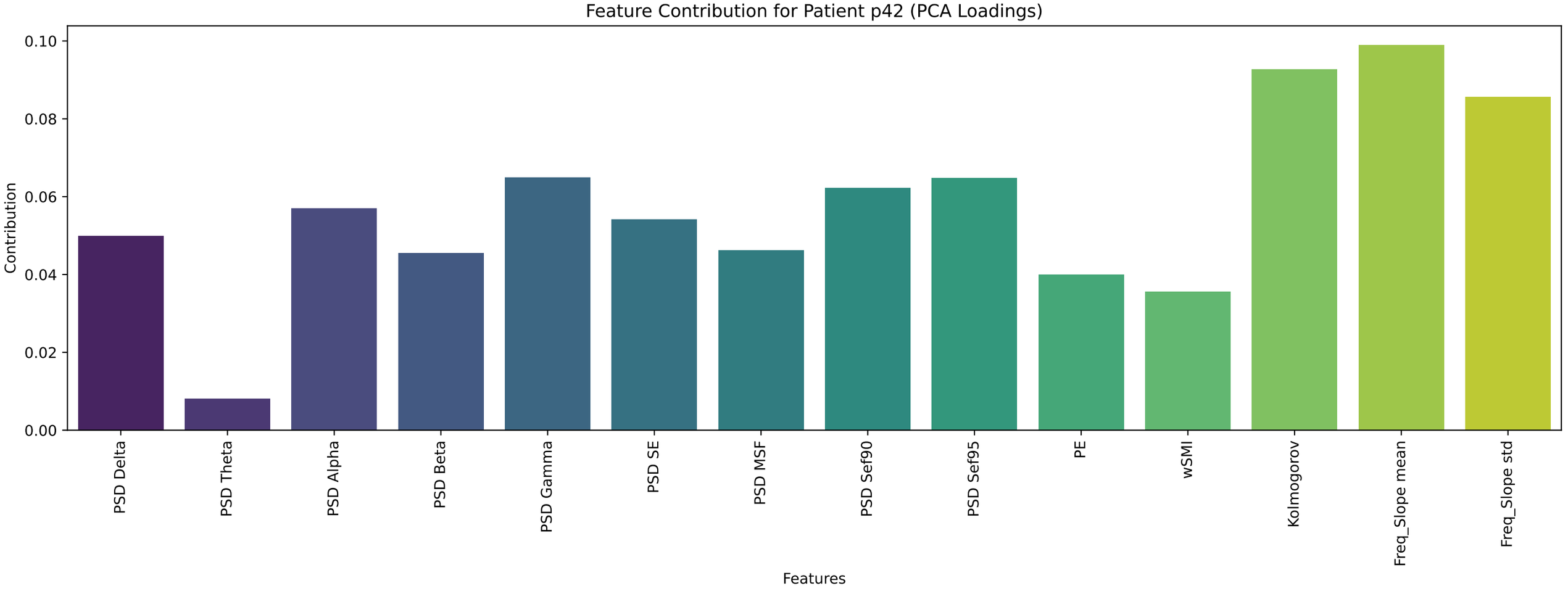

Clusters for Patient p41
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−500
−250
0
250
500
750
1000

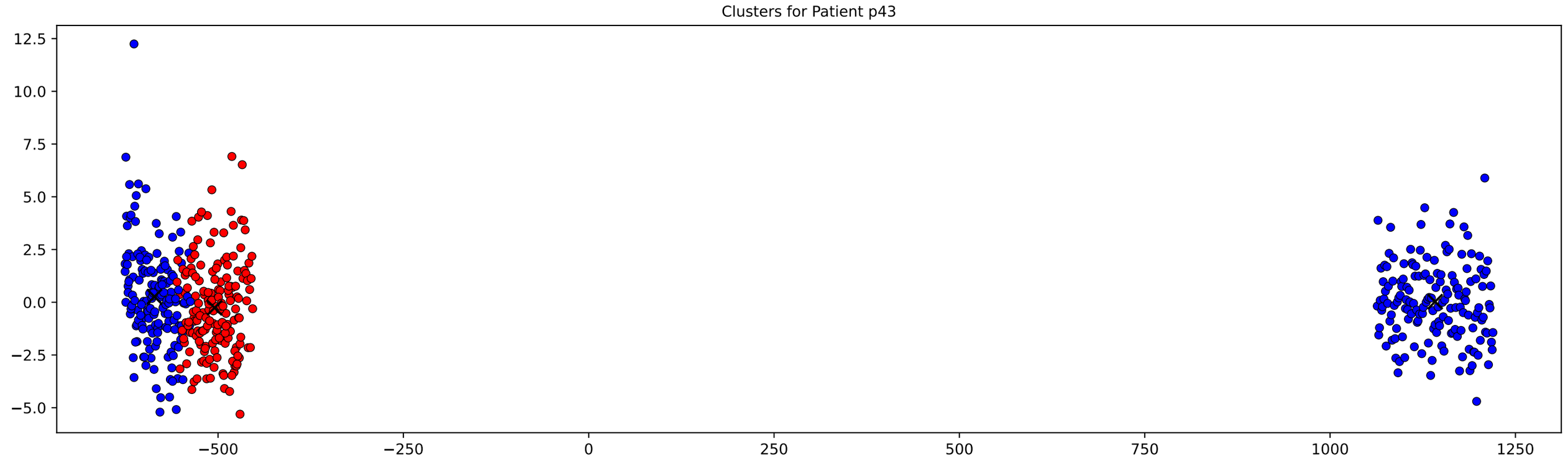

EEG Features with Clusters for Patient p41
Feature Value
4
3
2
1
0
−1
−2
−3
0
100
200
300
400
Sample Index

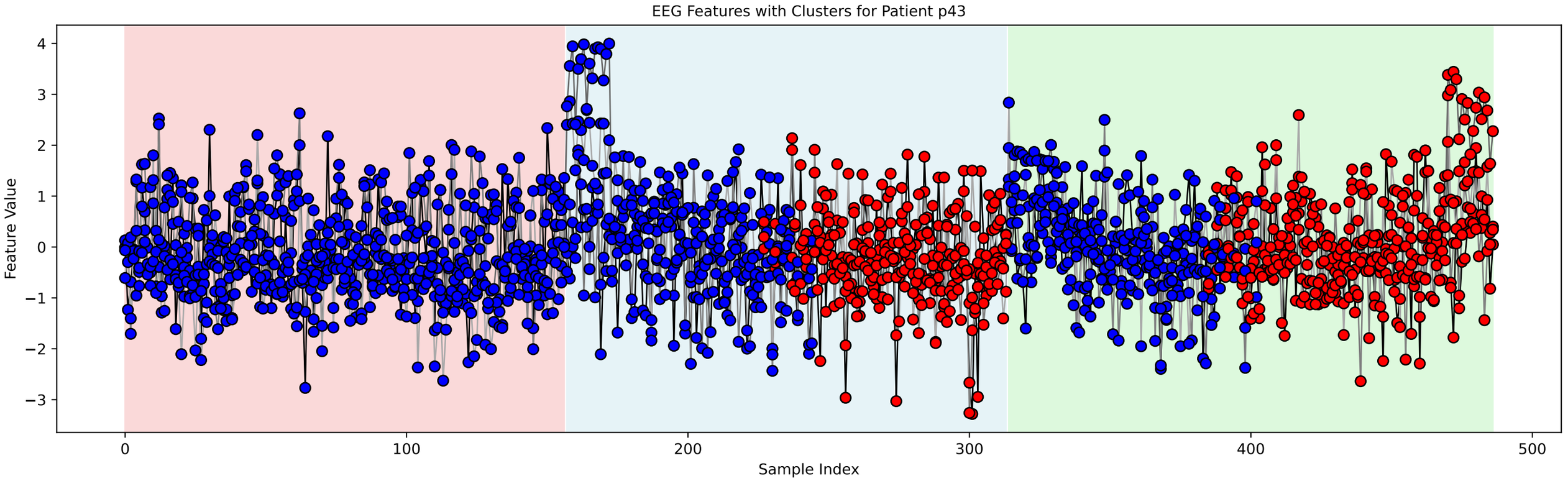

Feature Contribution for Patient p41 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

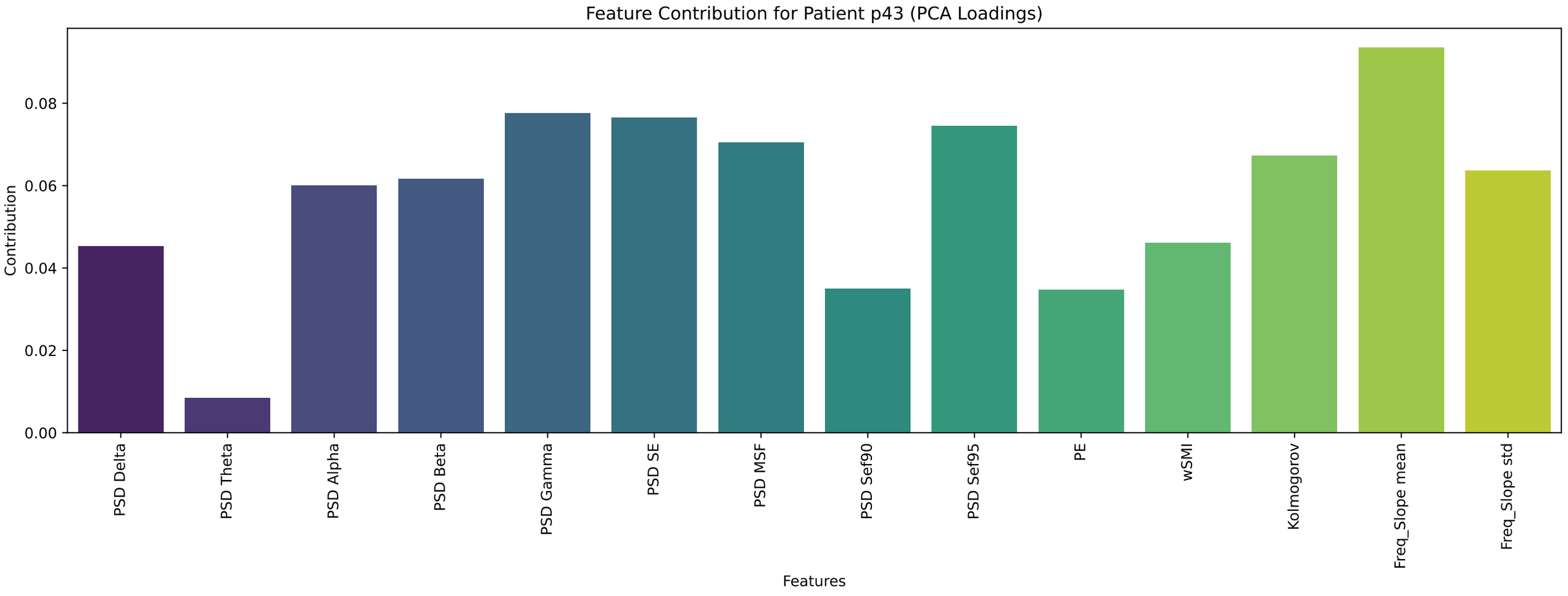

Clusters for Patient p42
12.5
10.0
7.5
5.0
2.5
0.0
−2.5
−500
−250
0
250
500
750
1000


EEG Features with Clusters for Patient p42
Feature Value
4
3
2
1
0
−1
−2
−3
−4
0
100
200
300
400
500
Sample Index


Feature Contribution for Patient p42 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features


Clusters for Patient p43
12.5
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−500
−250
0
250
500
750
1000
1250


EEG Features with Clusters for Patient p43
Feature Value
4
3
2
1
0
−1
−2
−3
0
100
200
300
400
500
Sample Index


Feature Contribution for Patient p43 (PCA Loadings)
Contribution
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

Clusters for Patient p44

EEG Features with Clusters for Patient p44

Feature Value

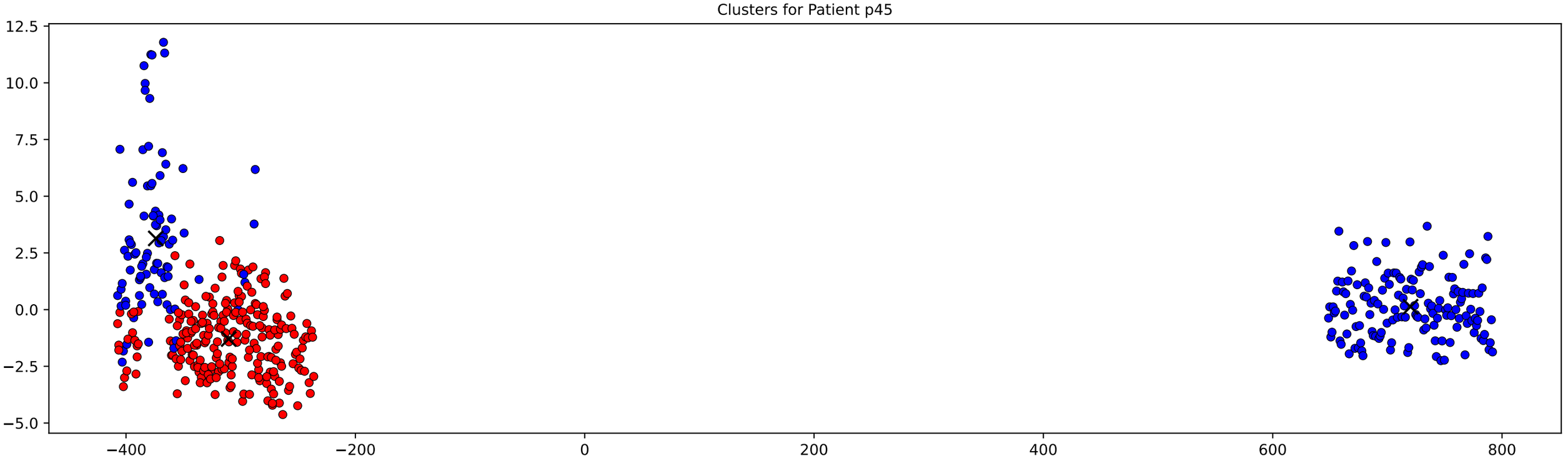
Sample Index

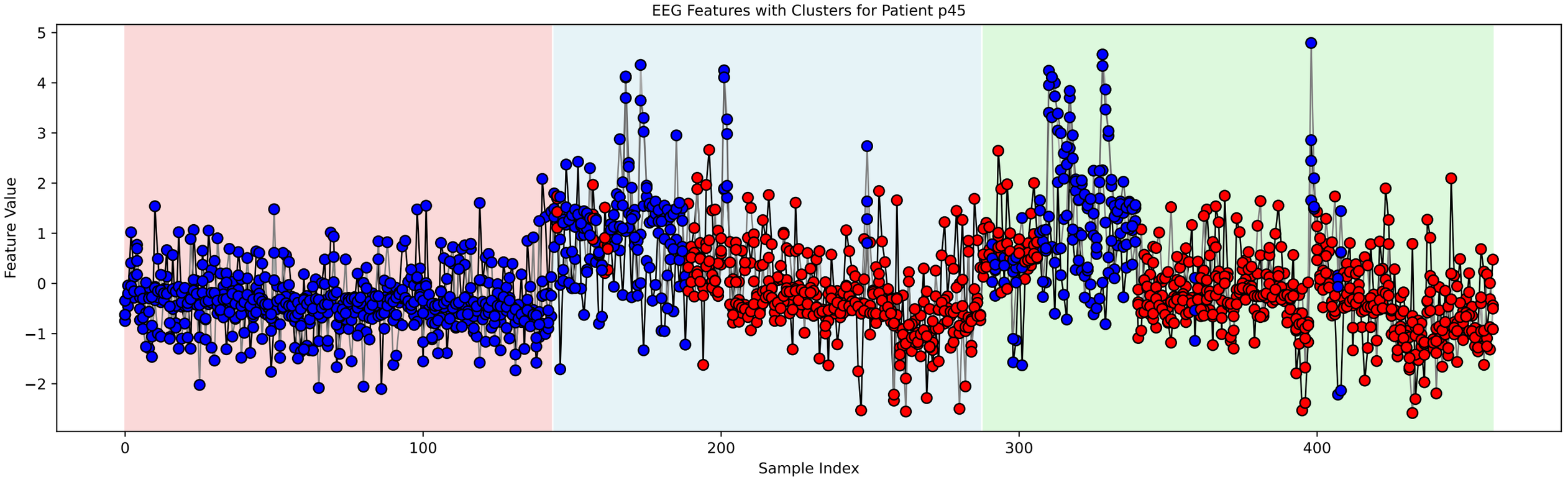
Feature Contribution for Patient p44 (PCA Loadings)

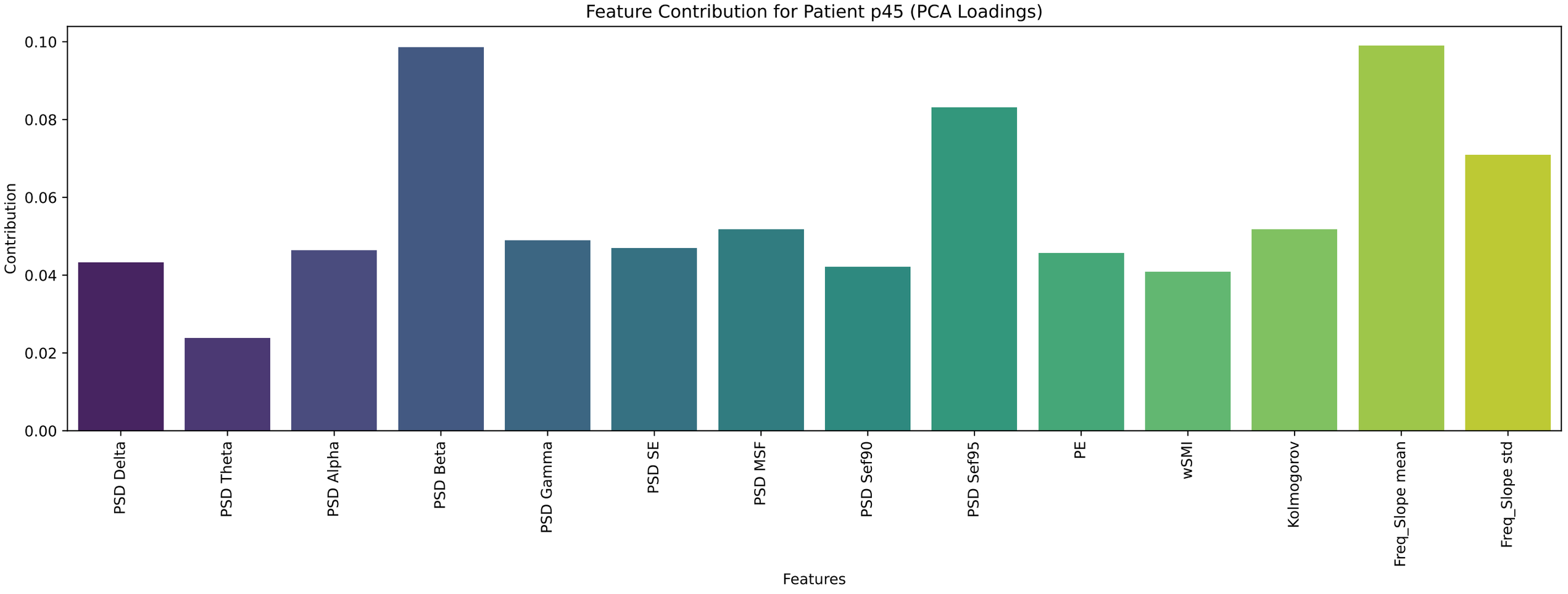
Contribution

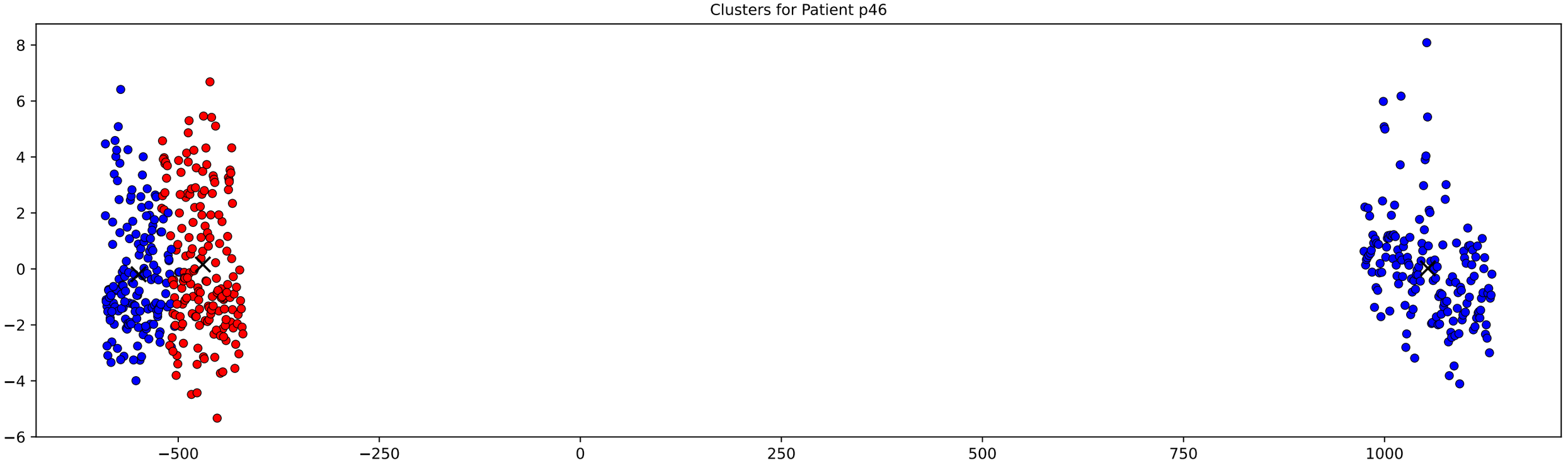
Features

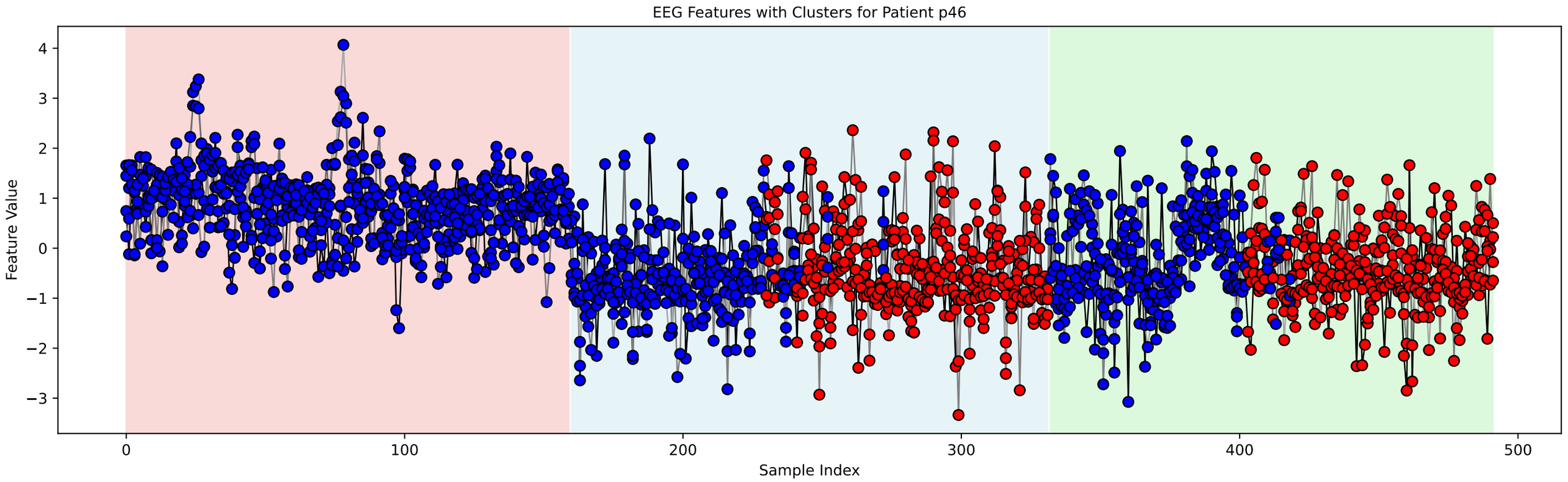
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std

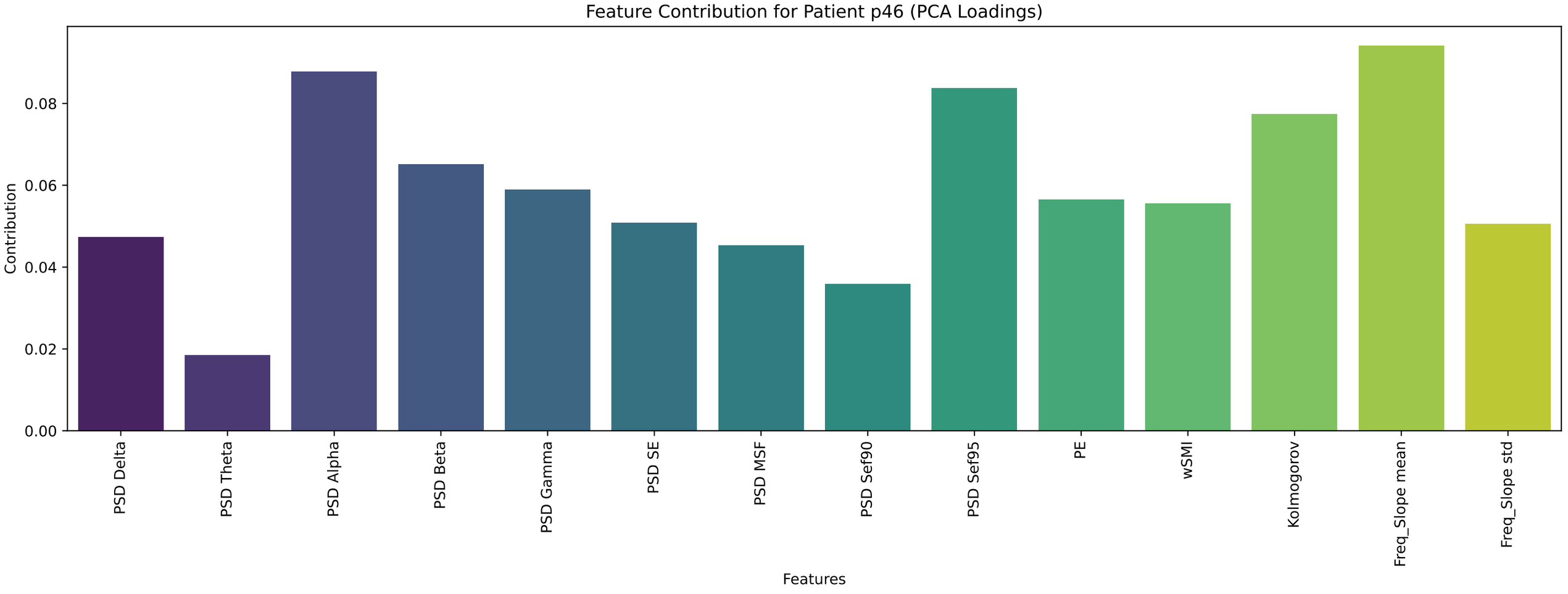

Clusters for Patient p45
12.5
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−400
−200
0
200
400
600
800

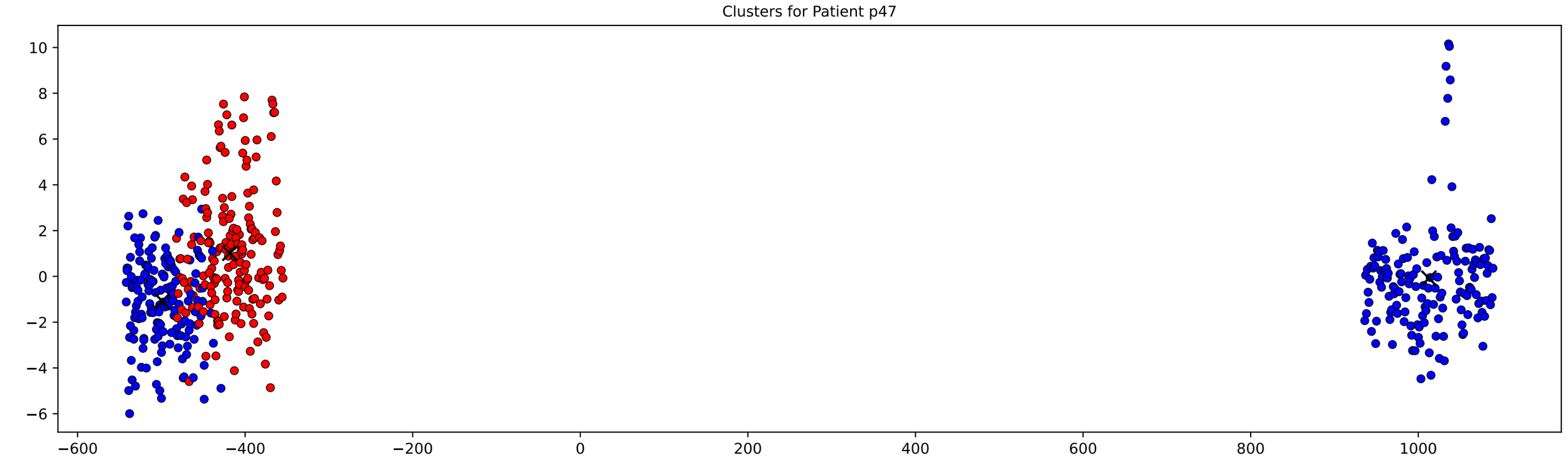

EEG Features with Clusters for Patient p45
Feature Value
5
4
3
2
1
0
−1
−2
0
100
200
300
400
Sample Index

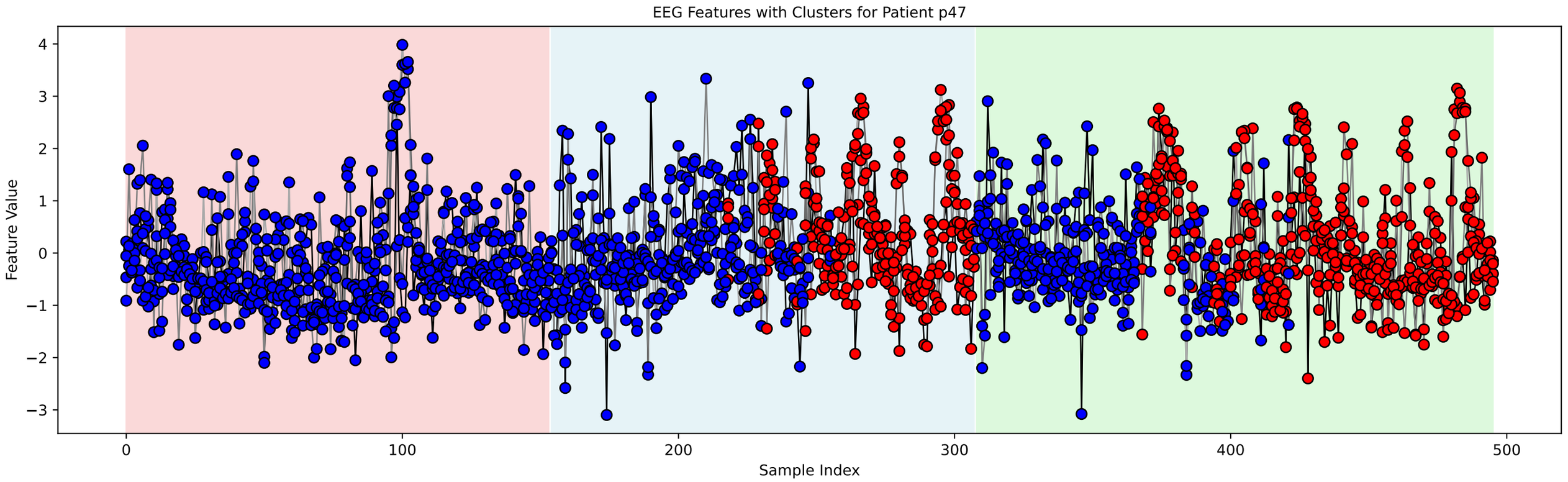

Feature Contribution for Patient p45 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

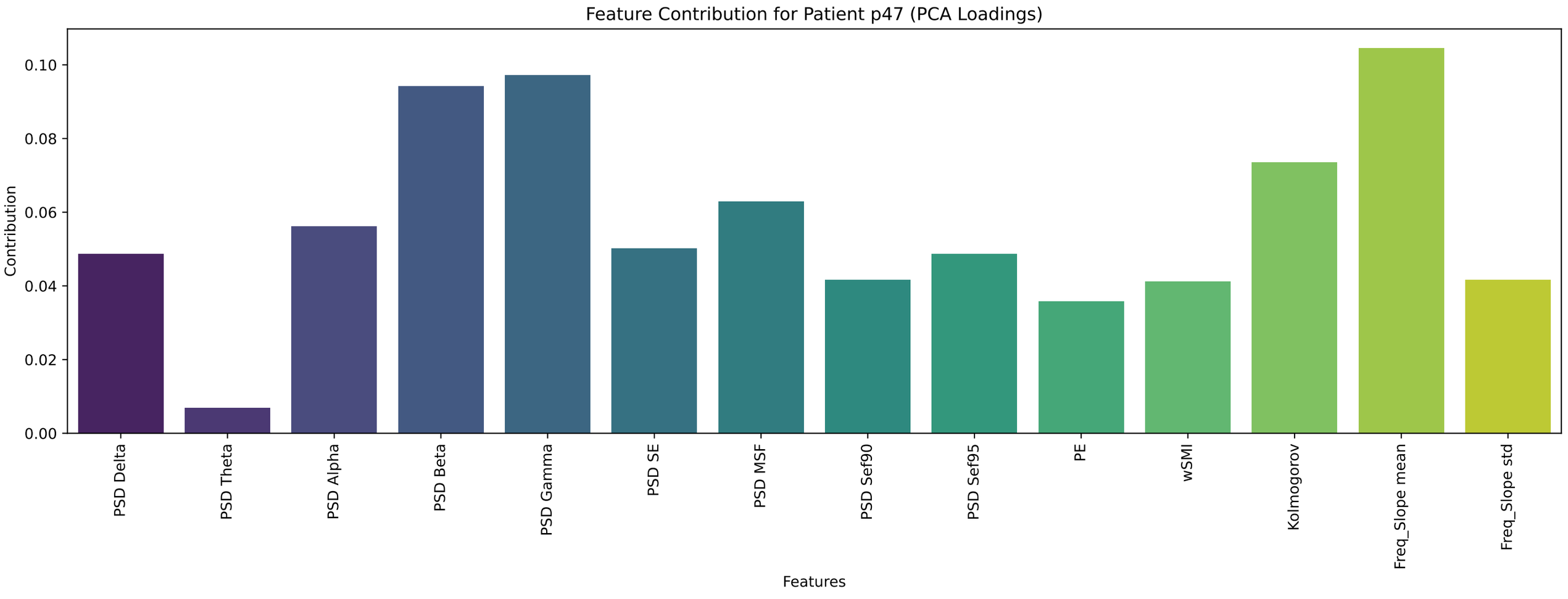

Clusters for Patient p46
8
6
4
2
0
−2
−4
−6
−500
−250
0
250
500
750
1000

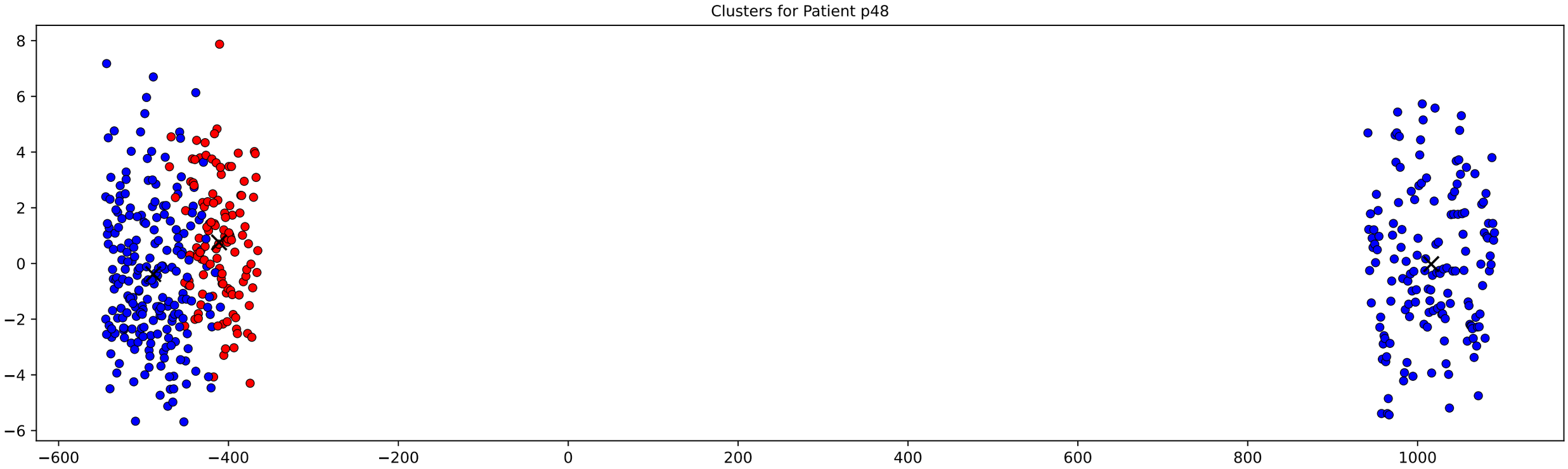

EEG Features with Clusters for Patient p46
Feature Value
4
3
2
1
0
−1
−2
−3
0
100
200
300
400
500
Sample Index

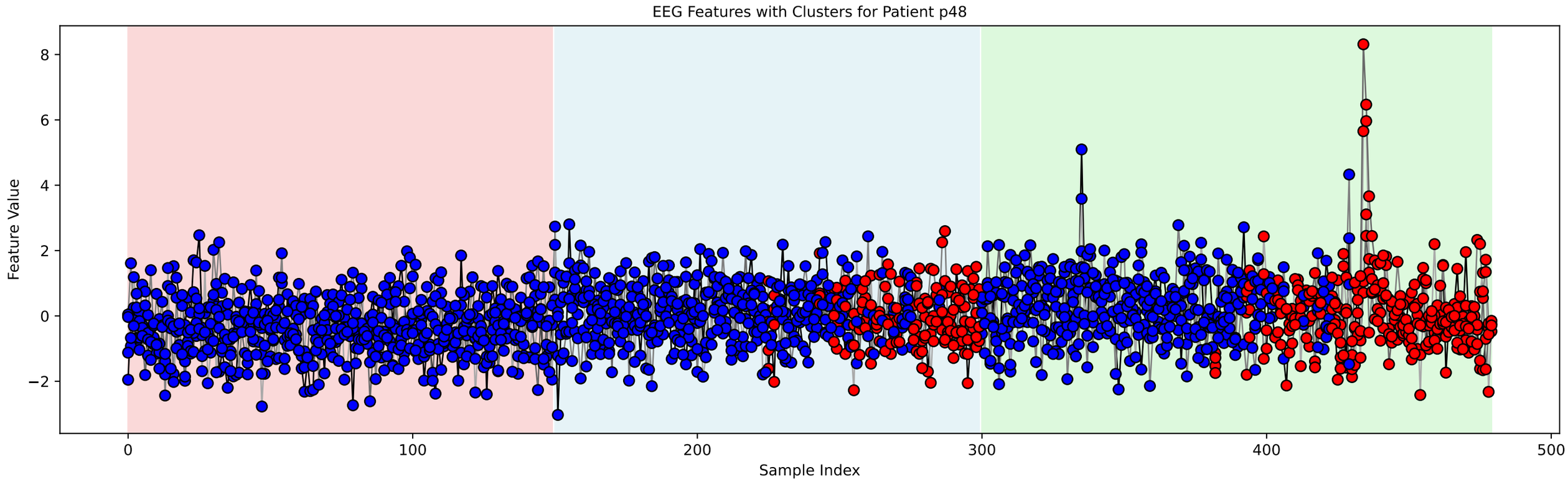

Feature Contribution for Patient p46 (PCA Loadings)
Contribution
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

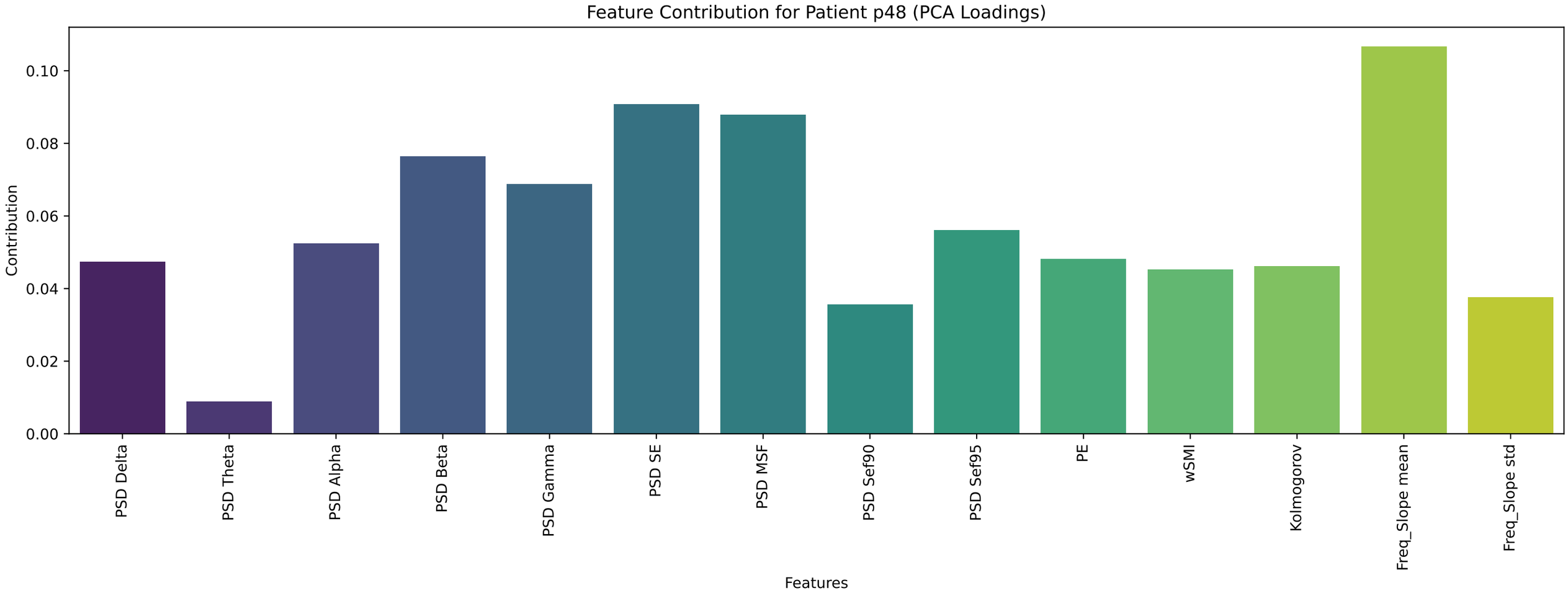

Clusters for Patient p47
10
8
6
4
2
0
−2
−4
−6
−600
−400
−200
0
200
400
600
800
1000

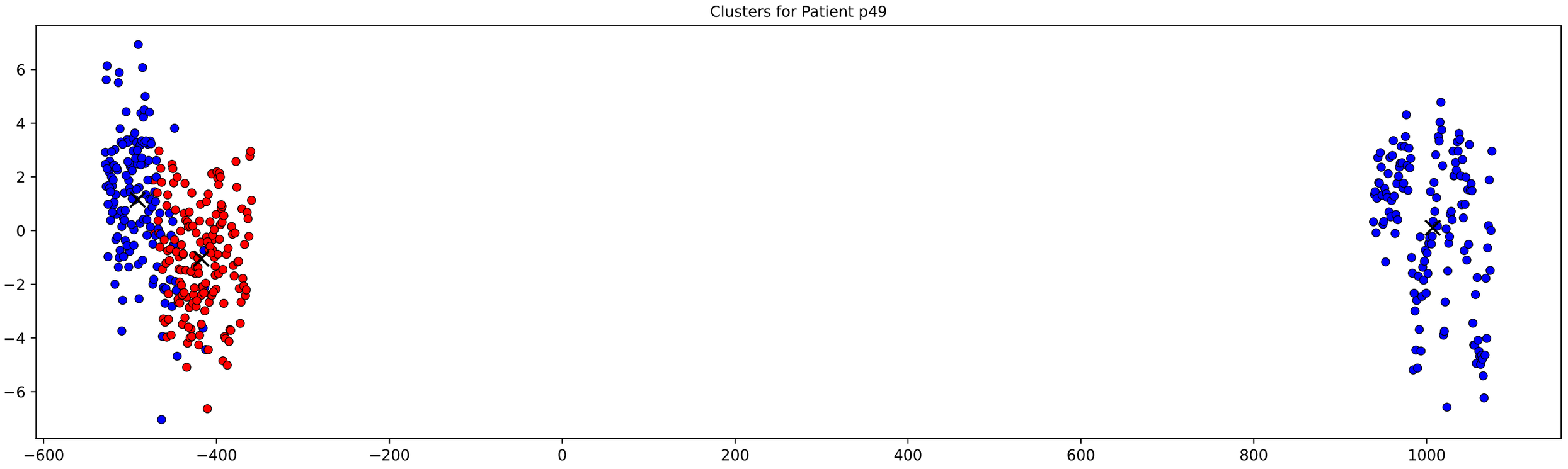

EEG Features with Clusters for Patient p47
Feature Value
4
3
2
1
0
−1
−2
−3
0
100
200
300
400
500
Sample Index

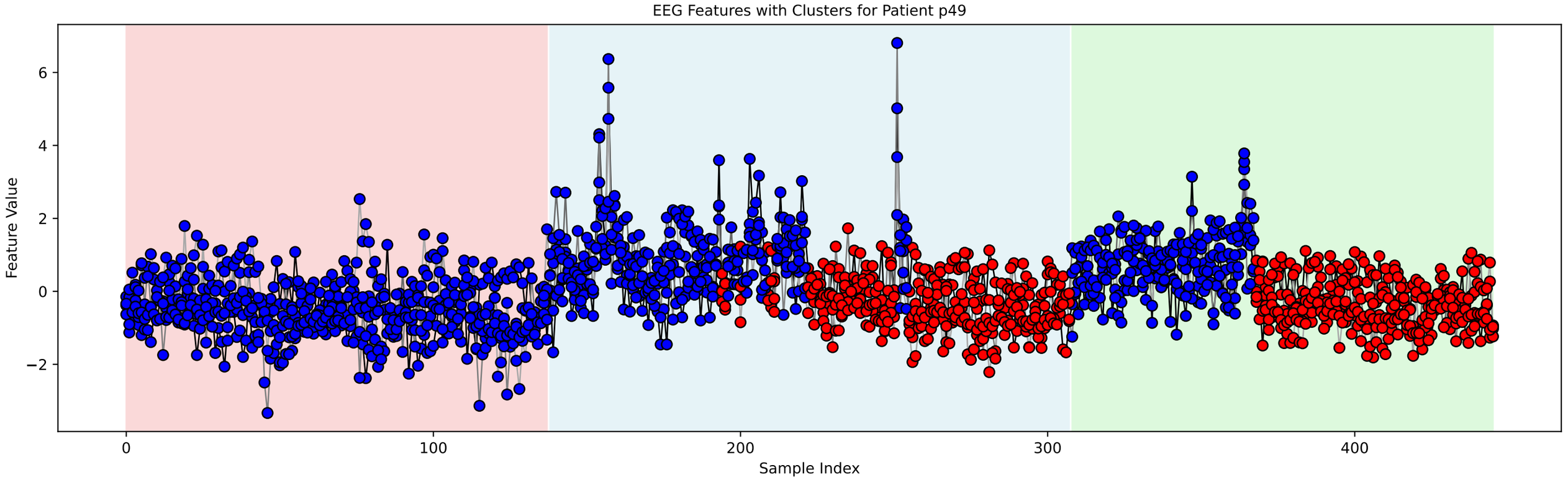

Feature Contribution for Patient p47 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

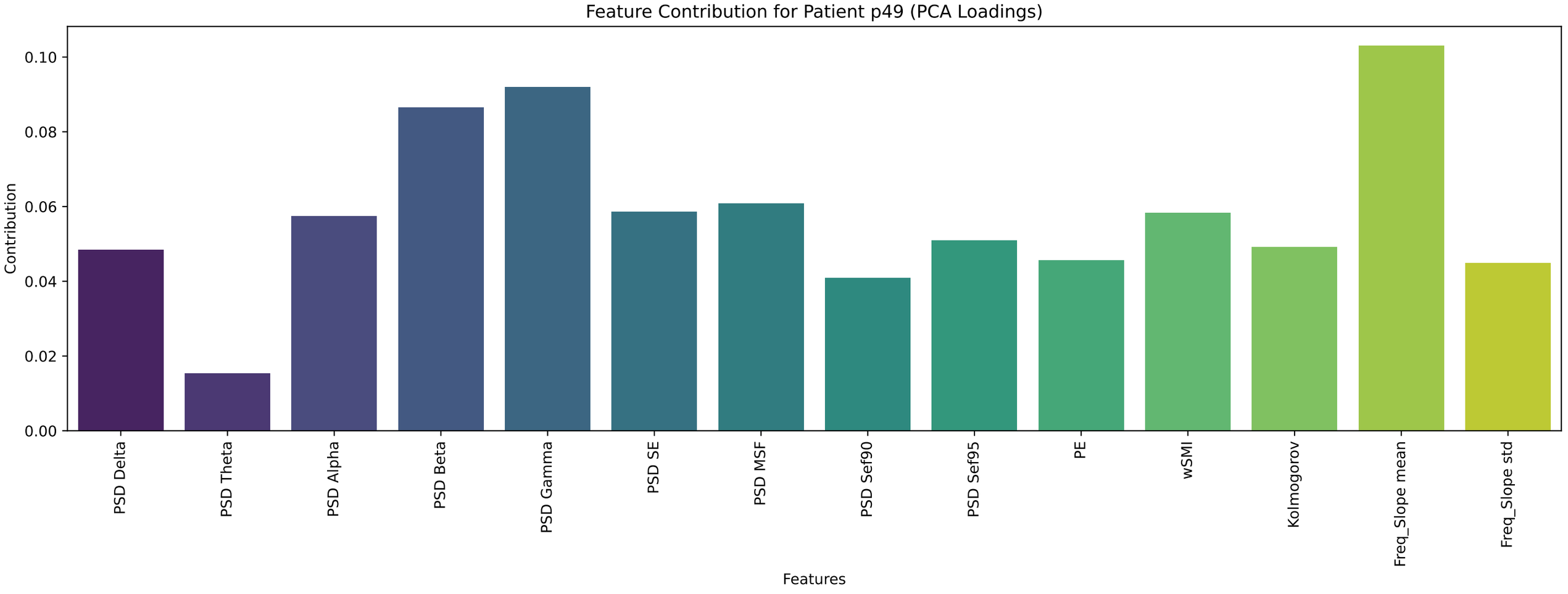

Clusters for Patient p48
8
6
4
2
0
−2
−4
−6
−600
−400
−200
0
200
400
600
800
1000


EEG Features with Clusters for Patient p48
Feature Value
8
6
4
2
0
−2
0
100
200
300
400
500
Sample Index


Feature Contribution for Patient p48 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features


Clusters for Patient p49
6
4
2
0
−2
−4
−6
−600
−400
−200
0
200
400
600
800
1000


EEG Features with Clusters for Patient p49
Feature Value
6
4
2
0
−2
0
100
200
300
400
Sample Index


Feature Contribution for Patient p49 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

Clusters for Patient p4

EEG Features with Clusters for Patient p4

Feature Value

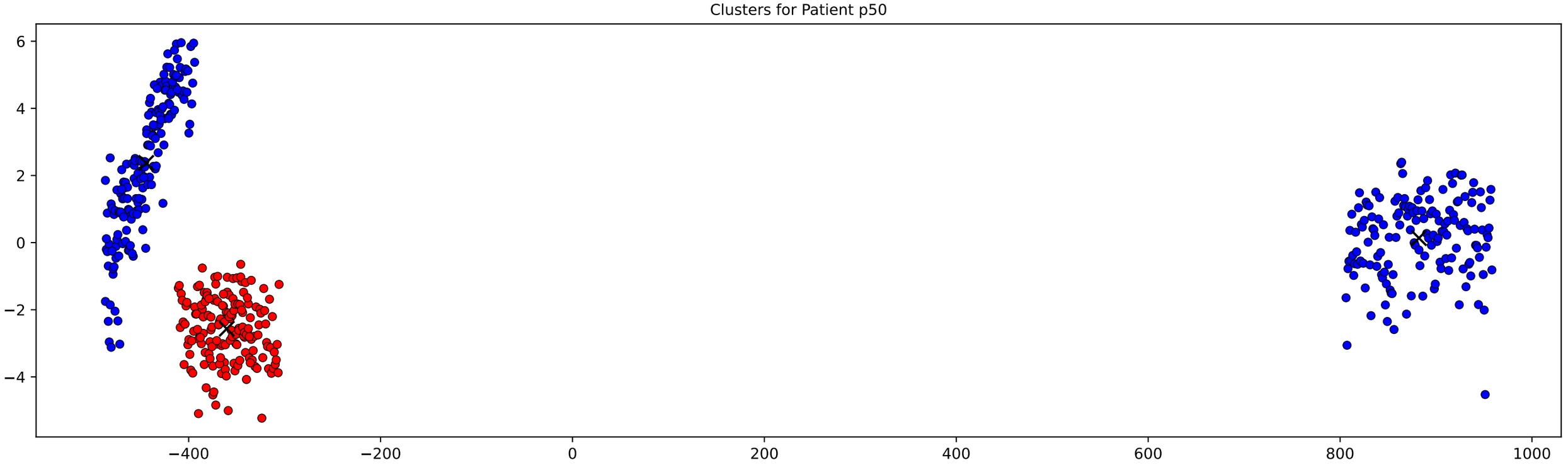
Sample Index

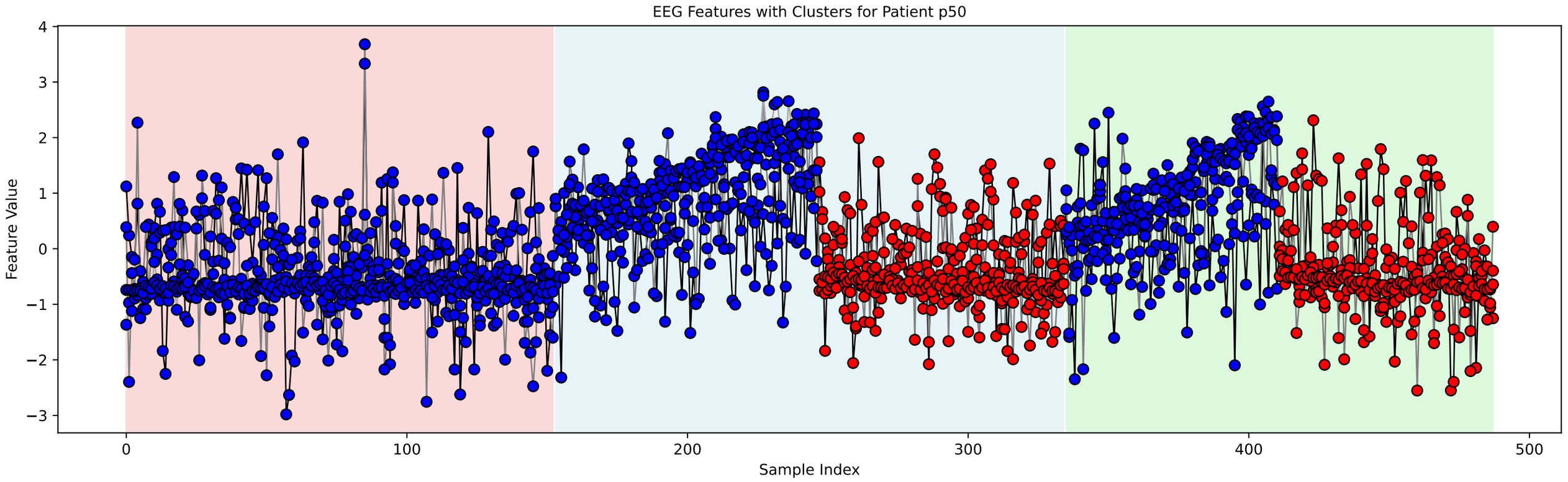
Feature Contribution for Patient p4 (PCA Loadings)

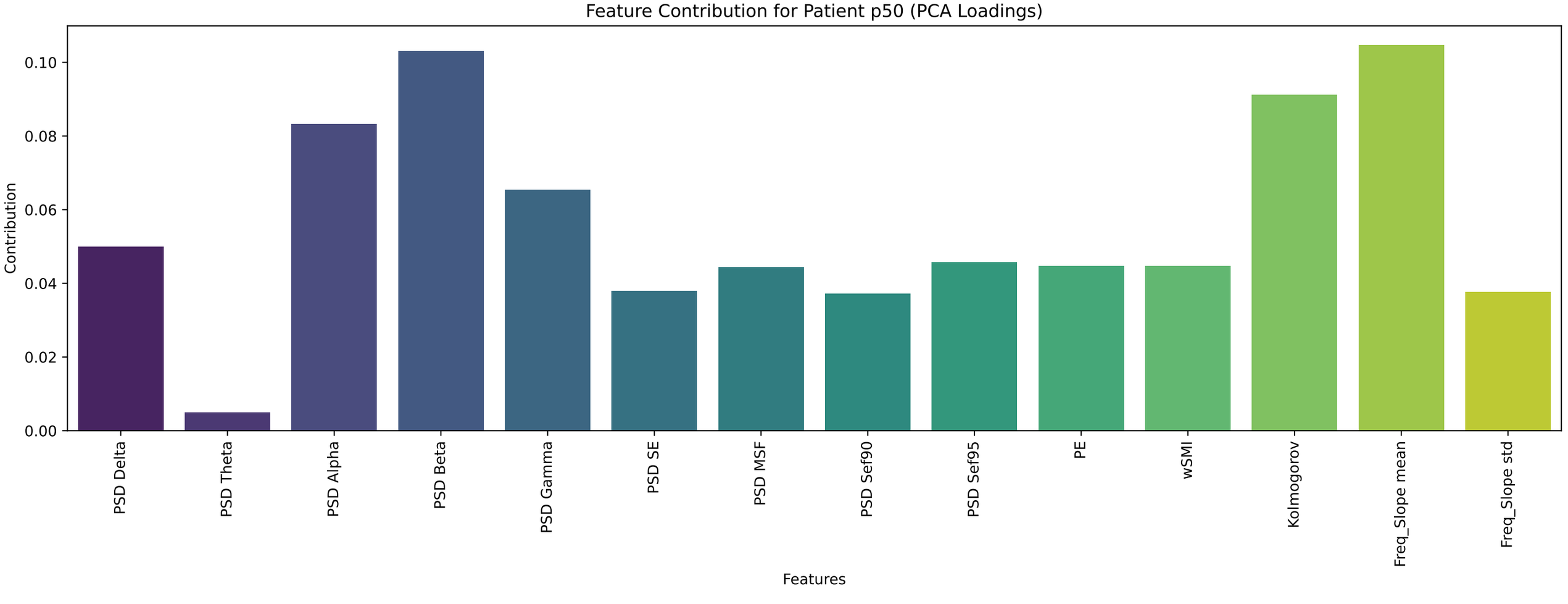
Contribution

Features

PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std


Clusters for Patient p50
6
4
2
0
−2
−4
−400
−200
0
200
400
600
800
1000


EEG Features with Clusters for Patient p50
Feature Value
4
3
2
1
0
−1
−2
−3
0
100
200
300
400
500
Sample Index


Feature Contribution for Patient p50 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

Clusters for Patient p51

EEG Features with Clusters for Patient p51

Feature Value

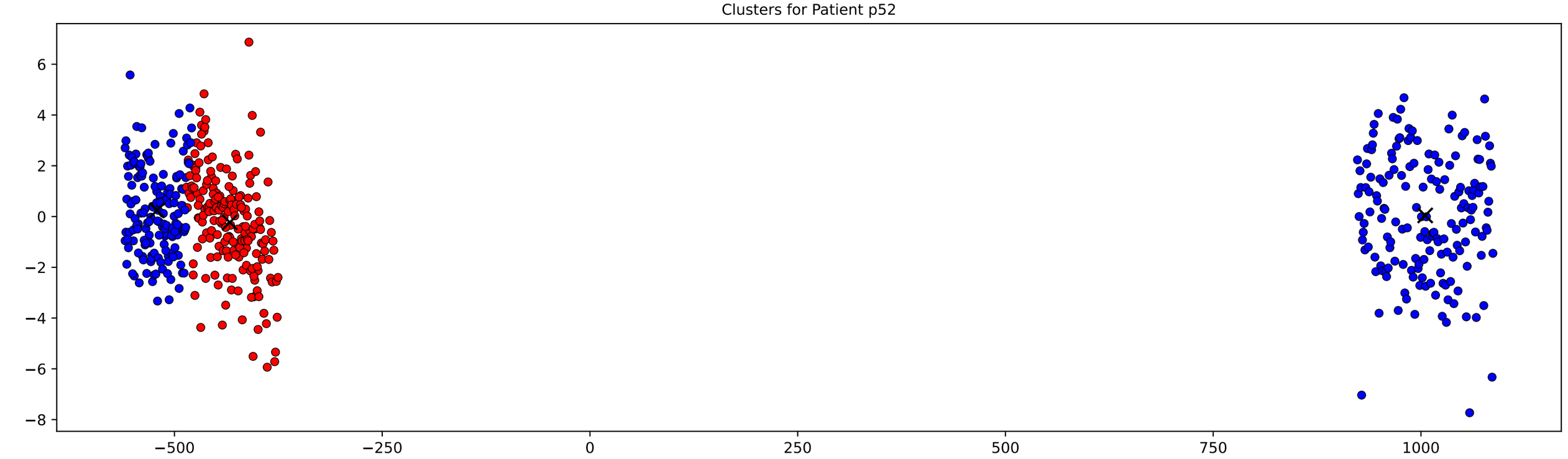
Sample Index

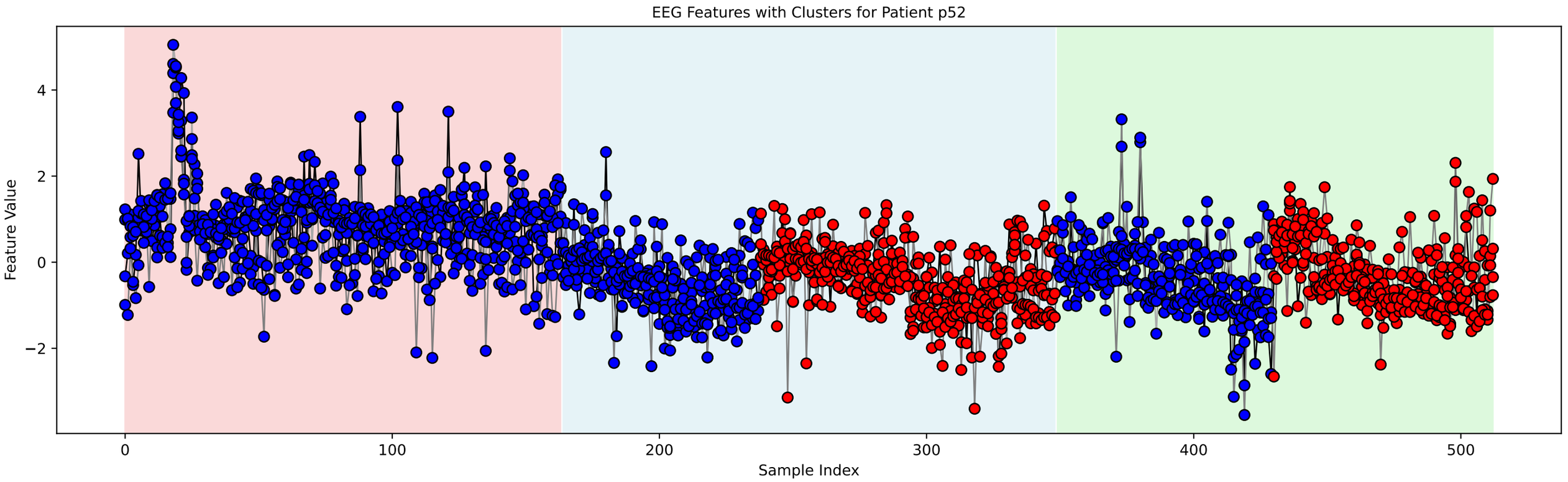
Feature Contribution for Patient p51 (PCA Loadings)

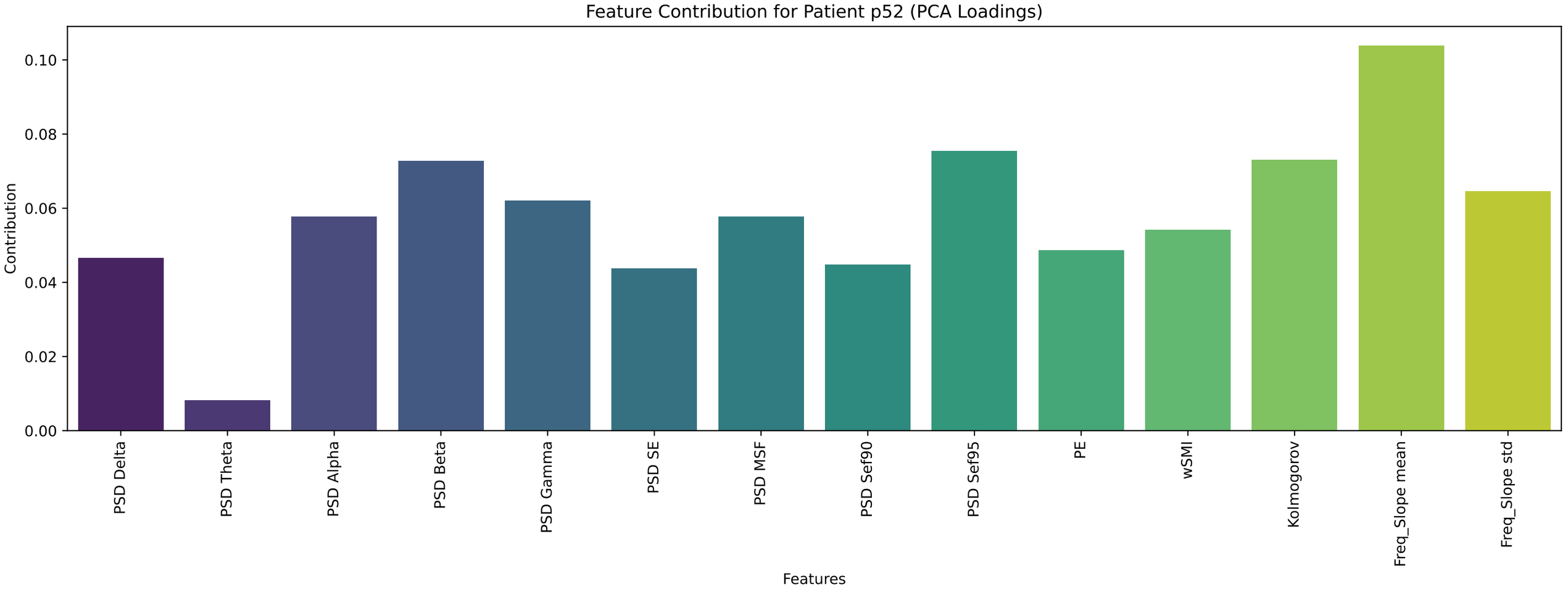
Contribution

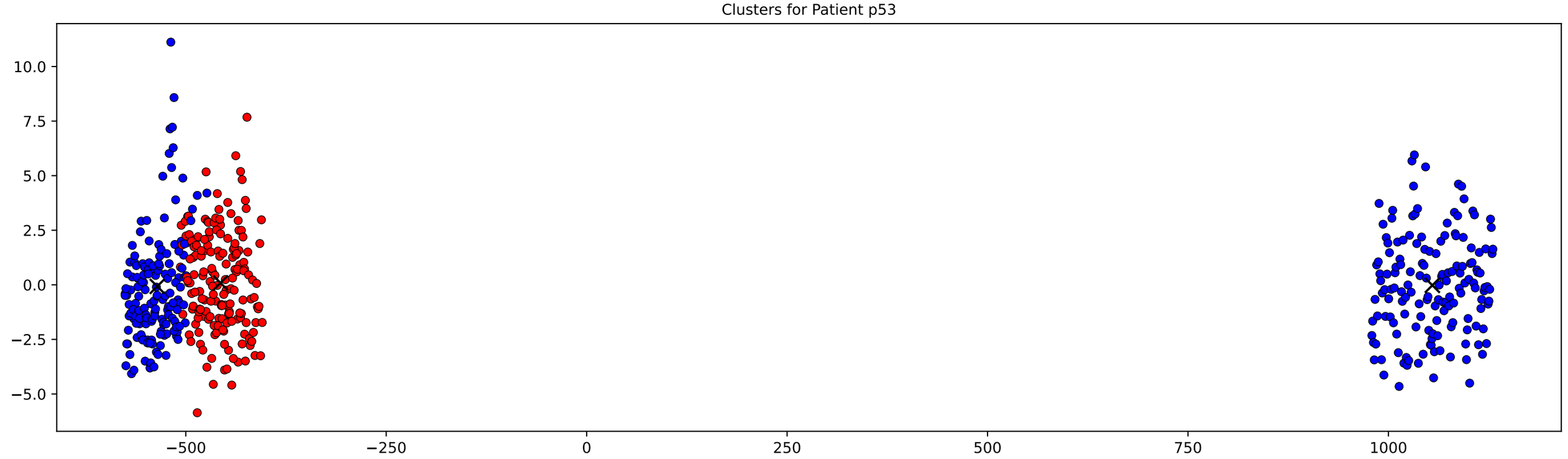
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std

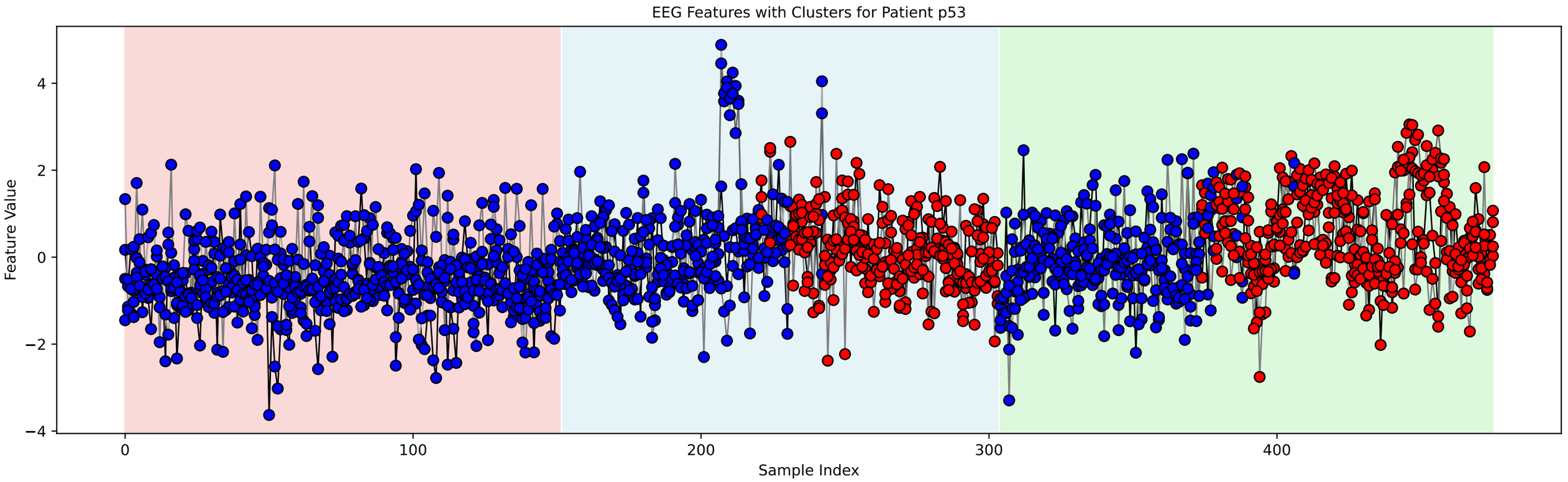
Features

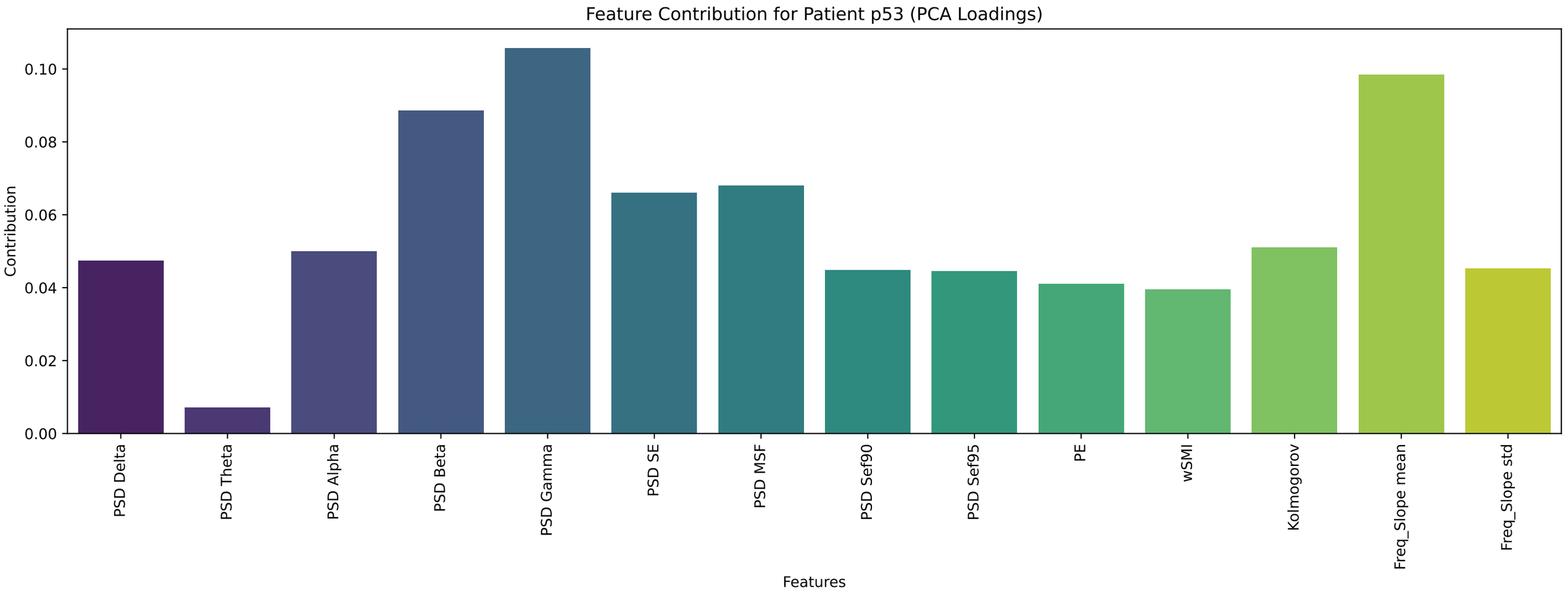

Clusters for Patient p52
6
4
2
0
−2
−4
−6
−8
−500
−250
0
250
500
750
1000

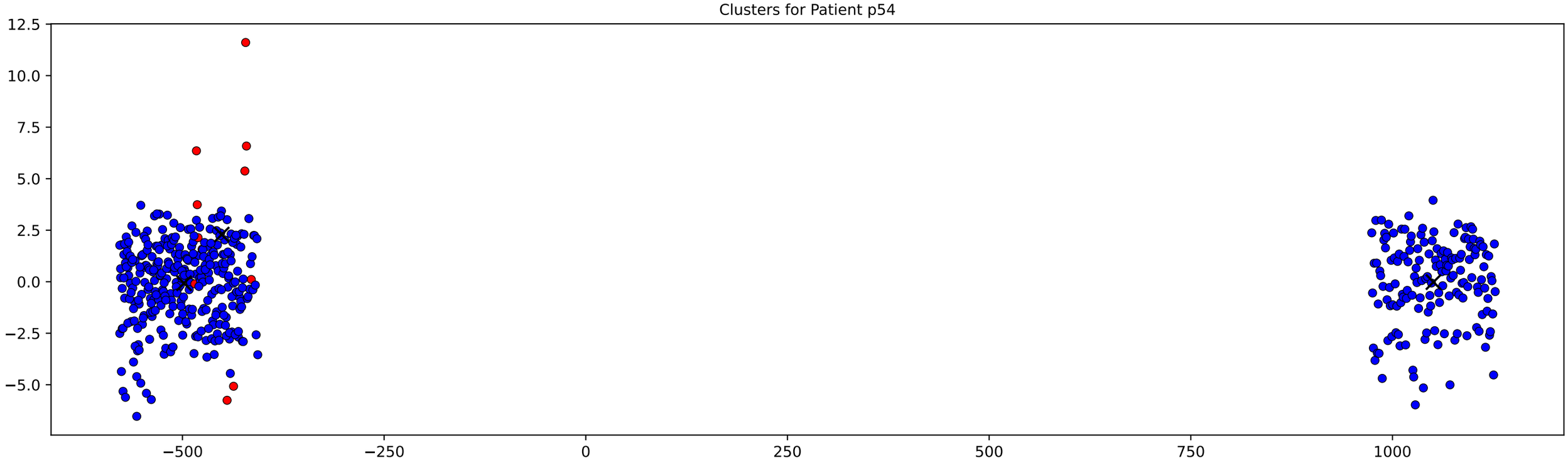

EEG Features with Clusters for Patient p52
Feature Value
4
2
0
−2
0
100
200
300
400
500
Sample Index

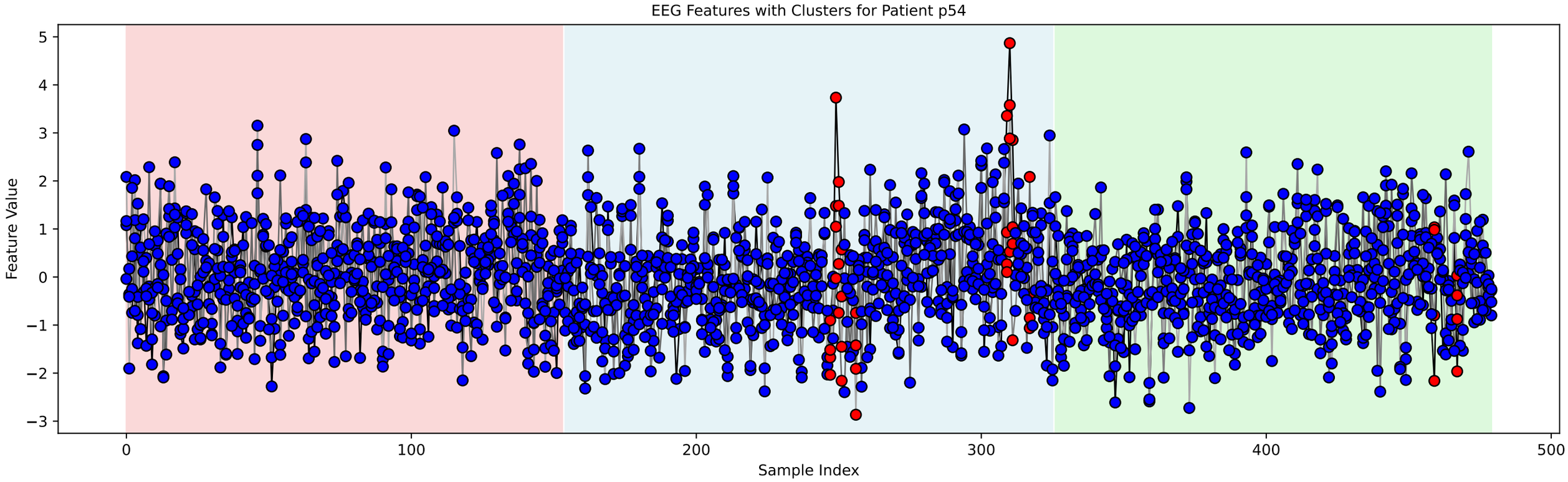

Feature Contribution for Patient p52 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

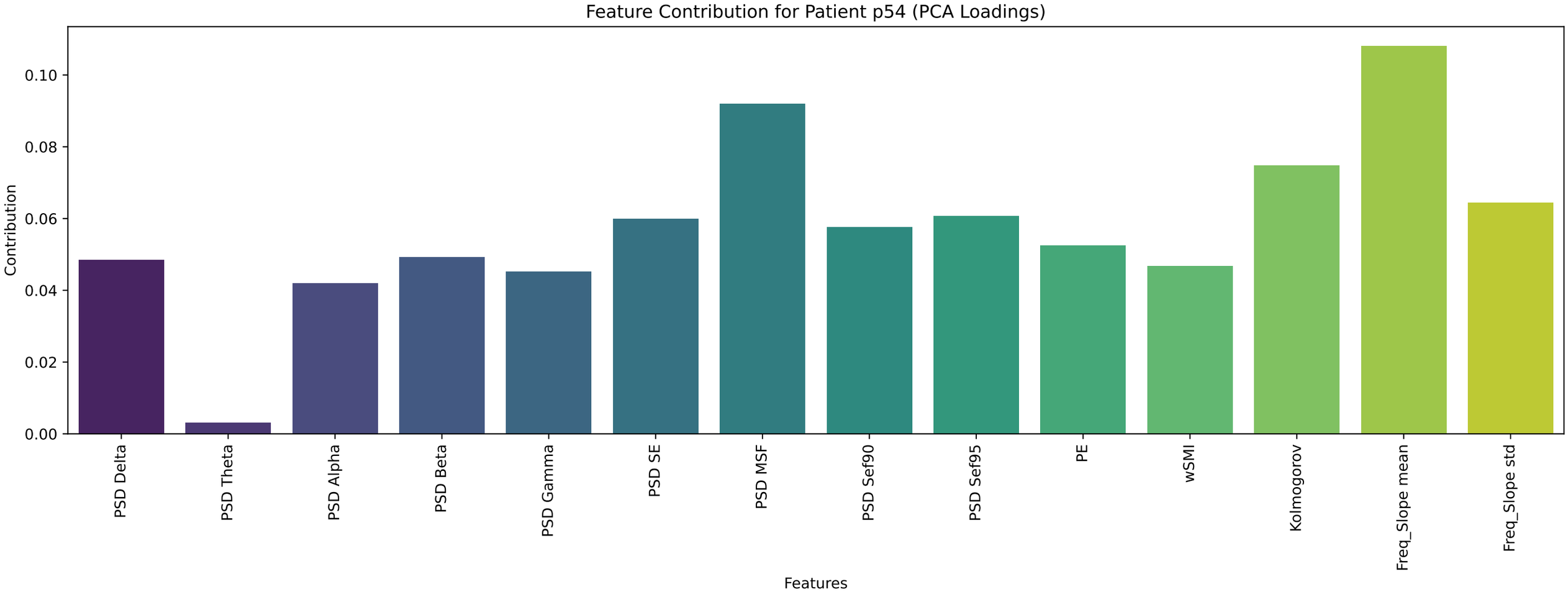

Clusters for Patient p53
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−500
−250
0
250
500
750
1000


EEG Features with Clusters for Patient p53
Feature Value
4
2
0
−2
−4
0
100
200
300
400
Sample Index


Feature Contribution for Patient p53 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features


Clusters for Patient p54
12.5
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−500
−250
0
250
500
750
1000


EEG Features with Clusters for Patient p54
Feature Value
5
4
3
2
1
0
−1
−2
−3
0
100
200
300
400
500
Sample Index


Feature Contribution for Patient p54 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

Clusters for Patient p56

EEG Features with Clusters for Patient p56

Feature Value

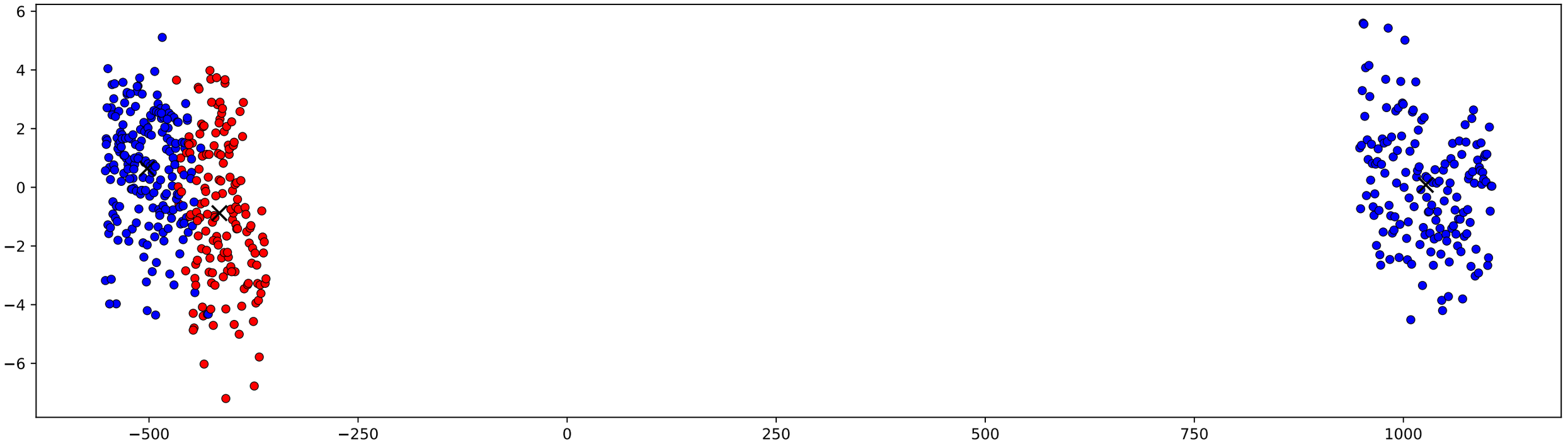
Sample Index

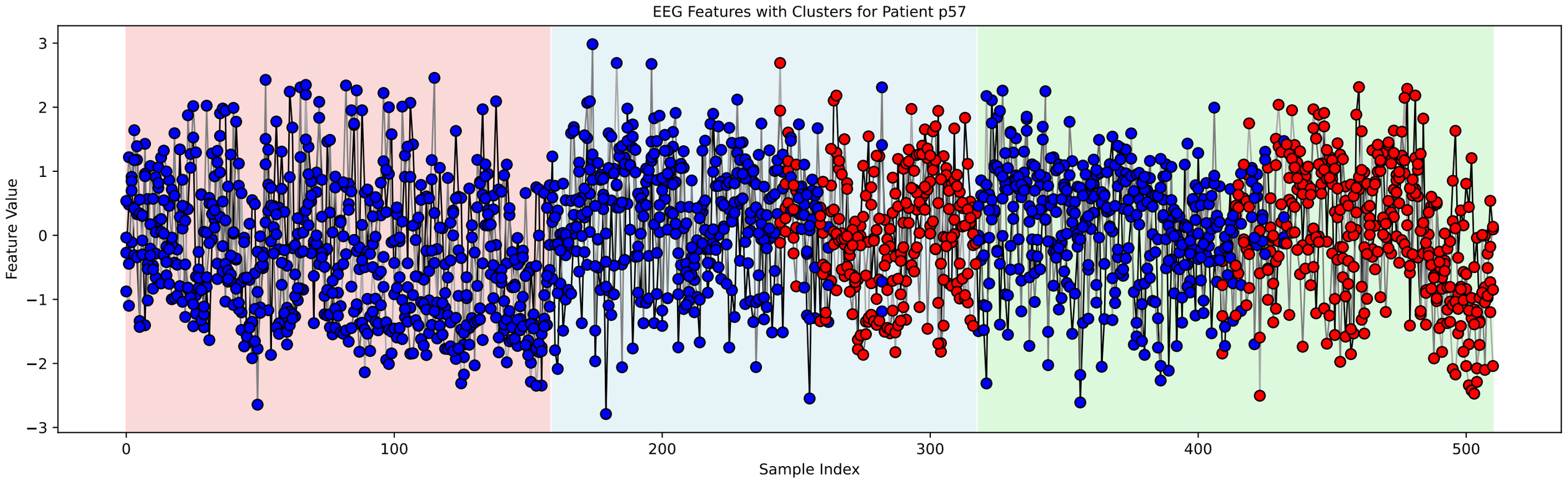
Feature Contribution for Patient p56 (PCA Loadings)

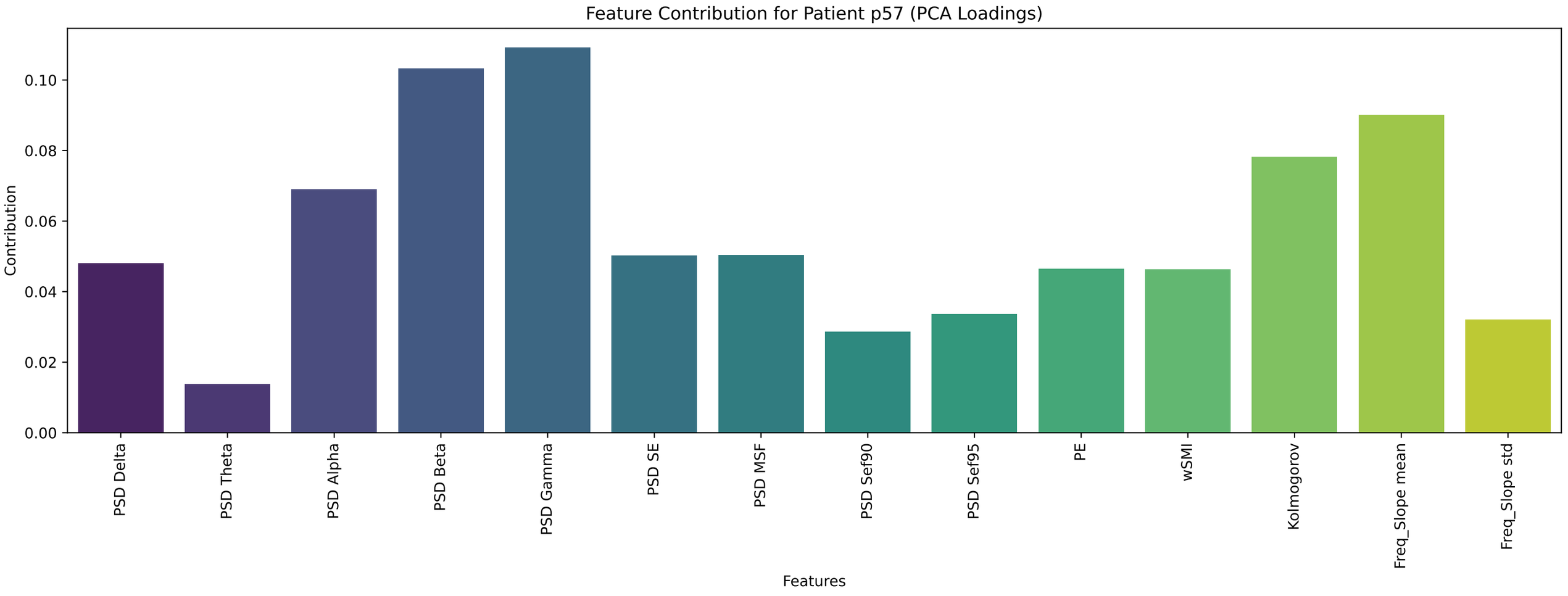
Contribution

PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std

Features


Clusters for Patient p57
6
4
2
0
−2
−4
−6
−500
−250
0
250
500
750
1000


EEG Features with Clusters for Patient p57
Feature Value
3
2
1
0
−1
−2
−3
0
100
200
300
400
500
Sample Index


Feature Contribution for Patient p57 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

Clusters for Patient p58

12.5
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0

−500
−250
0
250
500
750
1000

EEG Features with Clusters for Patient p58

Feature Value

6
4
2
0
−2

0
100
200
300
400

Sample Index

Feature Contribution for Patient p58 (PCA Loadings)

Contribution

0.10
0.08
0.06
0.04
0.02
0.00

PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std

Features

Clusters for Patient p59

EEG Features with Clusters for Patient p59

Feature Value

Sample Index

Feature Contribution for Patient p59 (PCA Loadings)

Contribution

Features

PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std

Clusters for Patient p5

EEG Features with Clusters for Patient p5

Feature Value

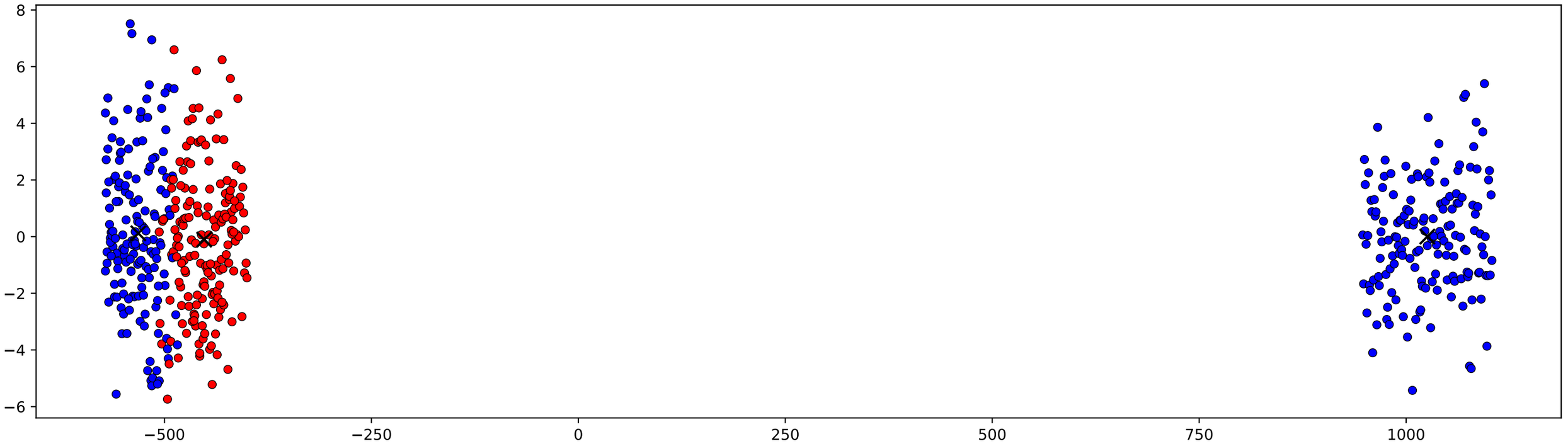
Sample Index

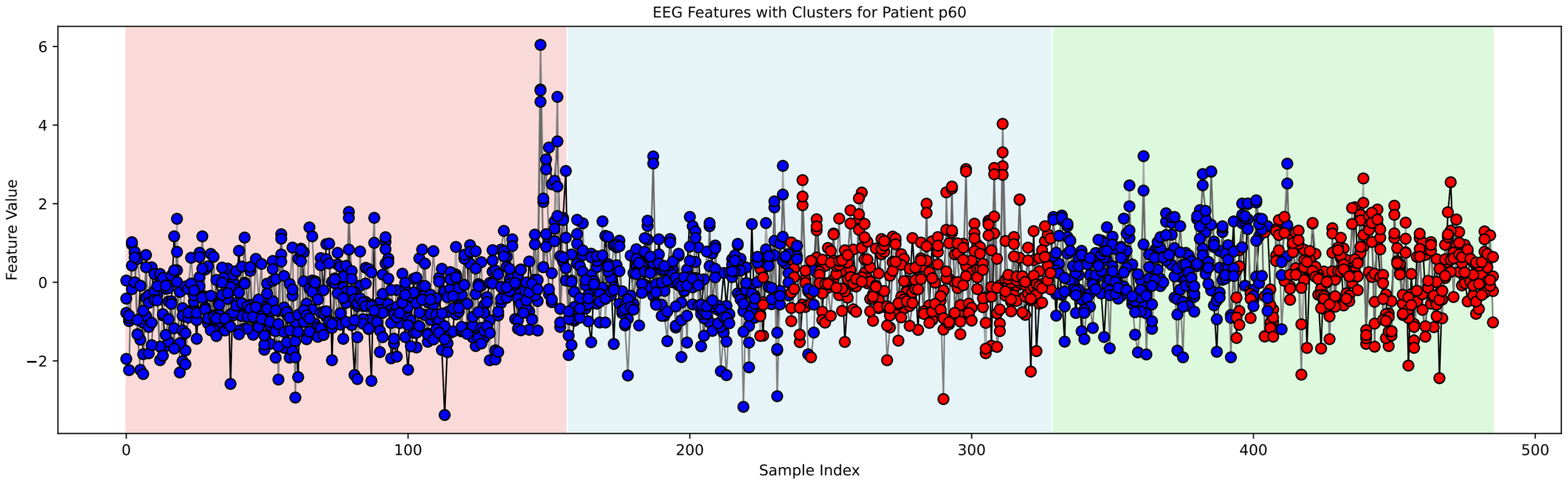
Feature Contribution for Patient p5 (PCA Loadings)

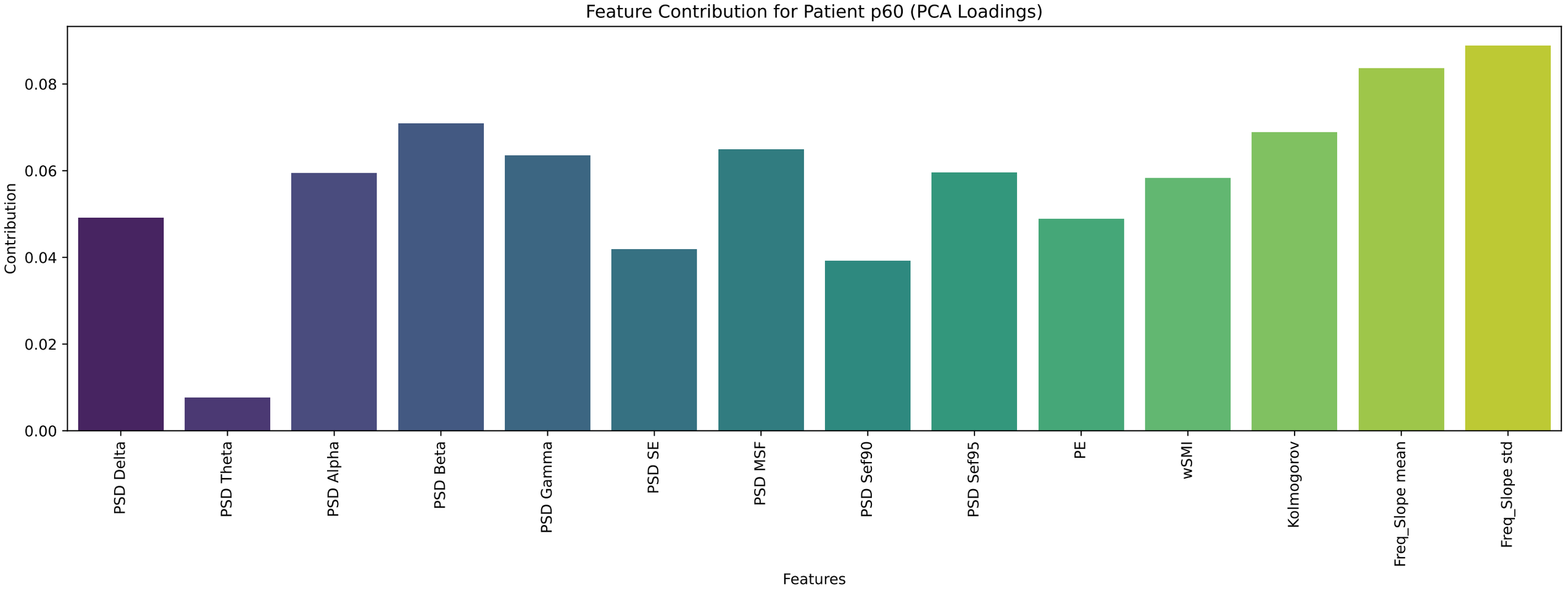
Contribution

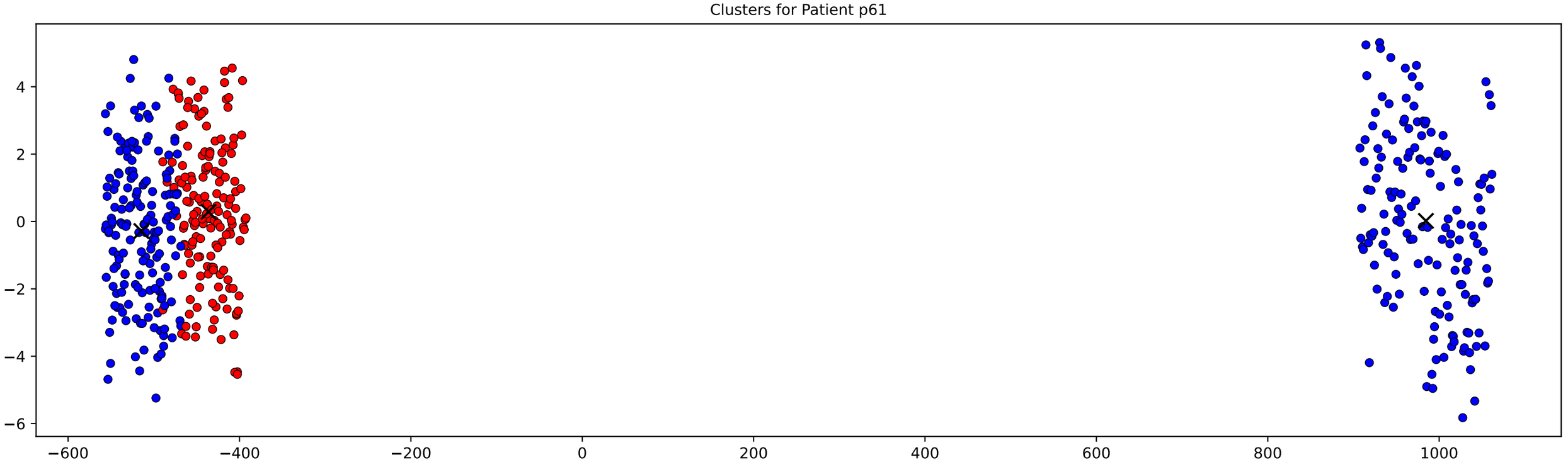
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std

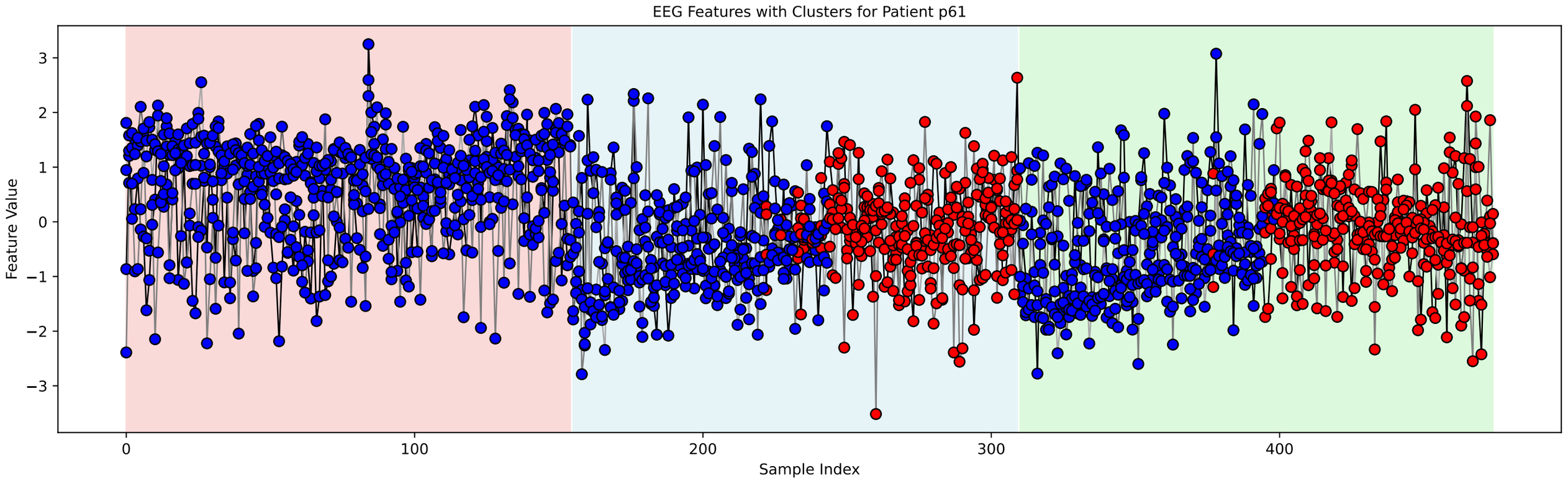
Features

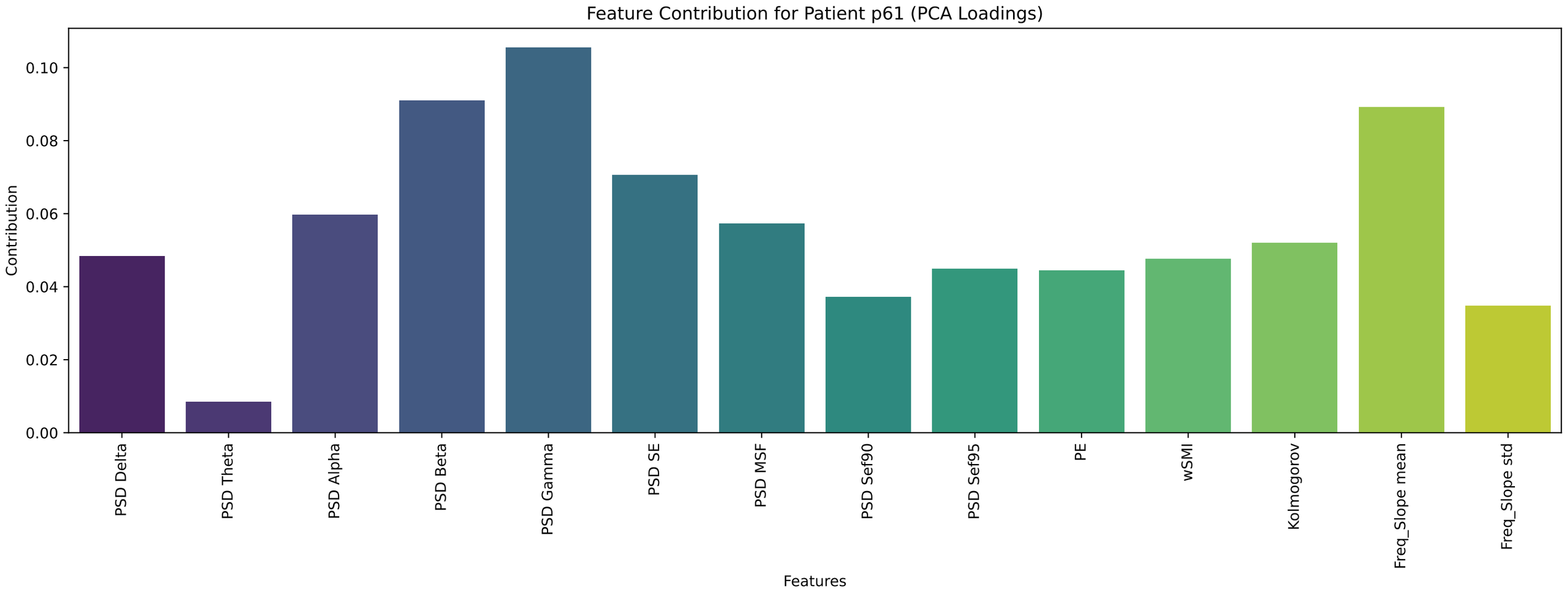

Clusters for Patient p60
8
6
4
2
0
−2
−4
−6
−500
−250
0
250
500
750
1000


EEG Features with Clusters for Patient p60
Feature Value
6
4
2
0
−2
0
100
200
300
400
500
Sample Index


Feature Contribution for Patient p60 (PCA Loadings)
Contribution
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features


Clusters for Patient p61
4
2
0
−2
−4
−6
−600
−400
−200
0
200
400
600
800
1000


EEG Features with Clusters for Patient p61
Feature Value
3
2
1
0
−1
−2
−3
0
100
200
300
400
Sample Index


Feature Contribution for Patient p61 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

Clusters for Patient p62

EEG Features with Clusters for Patient p62

Feature Value

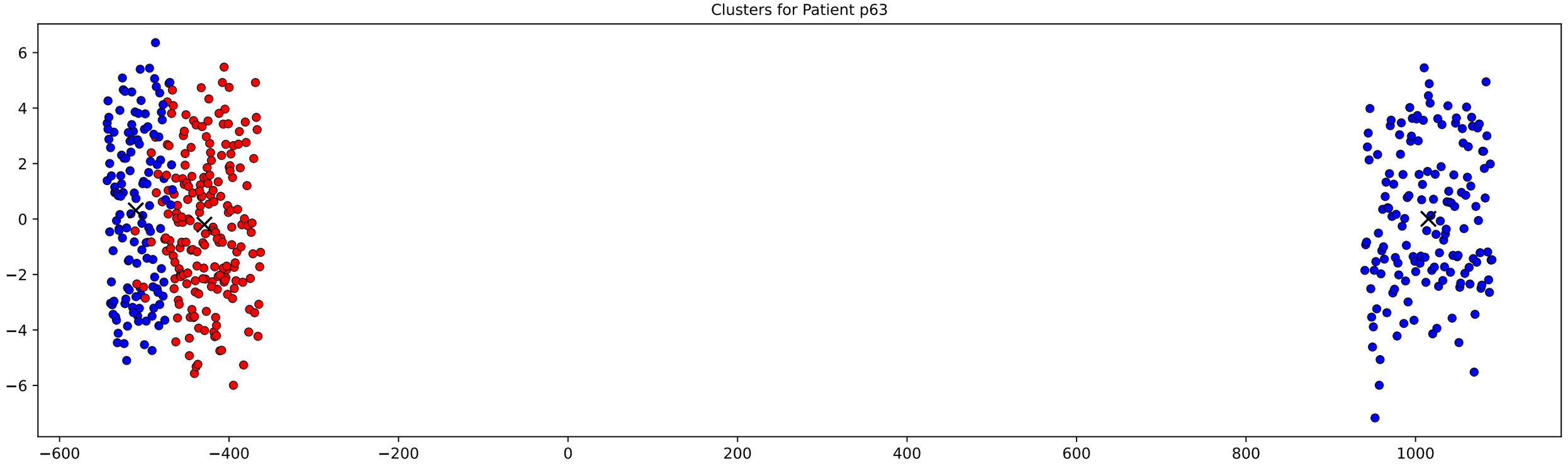
Sample Index

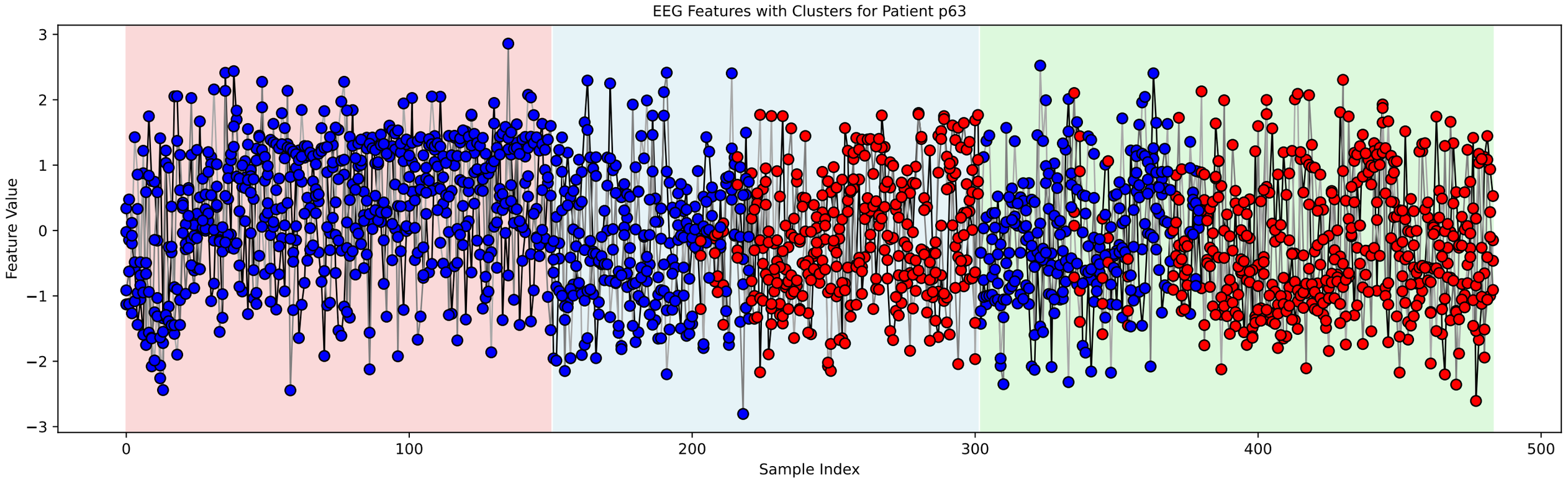
Feature Contribution for Patient p62 (PCA Loadings)

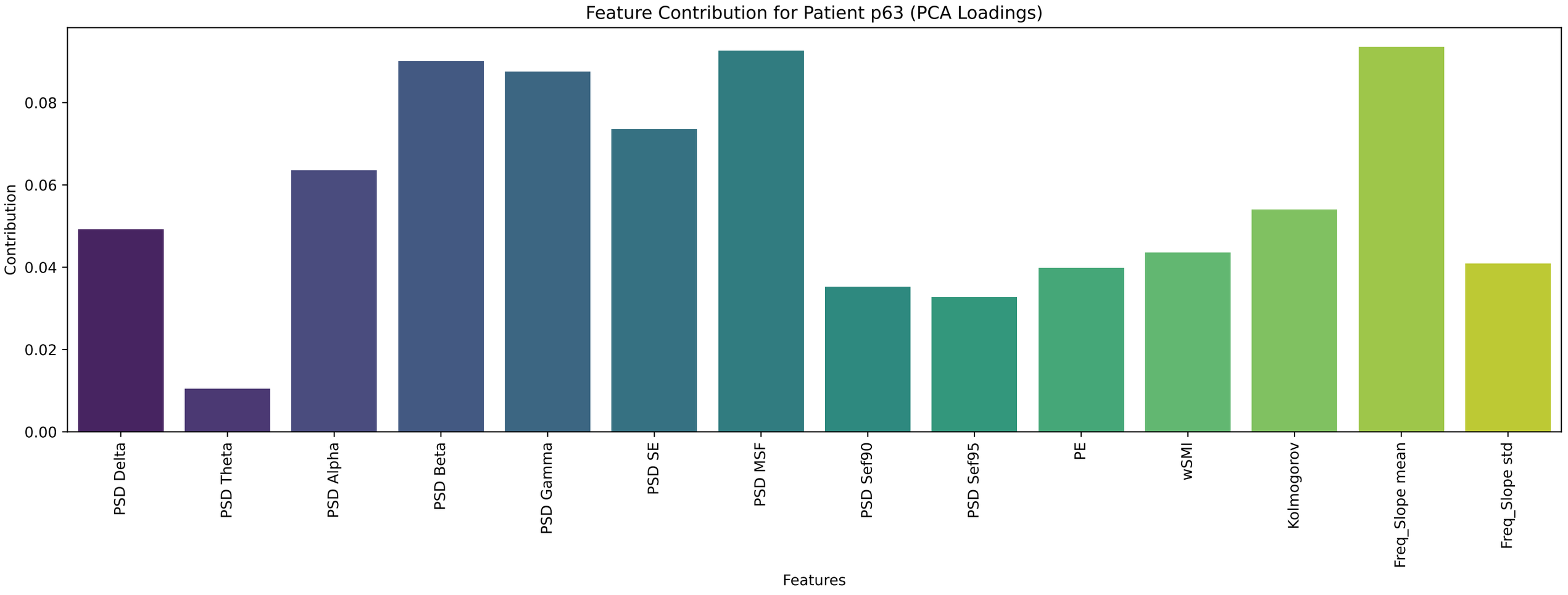
Contribution

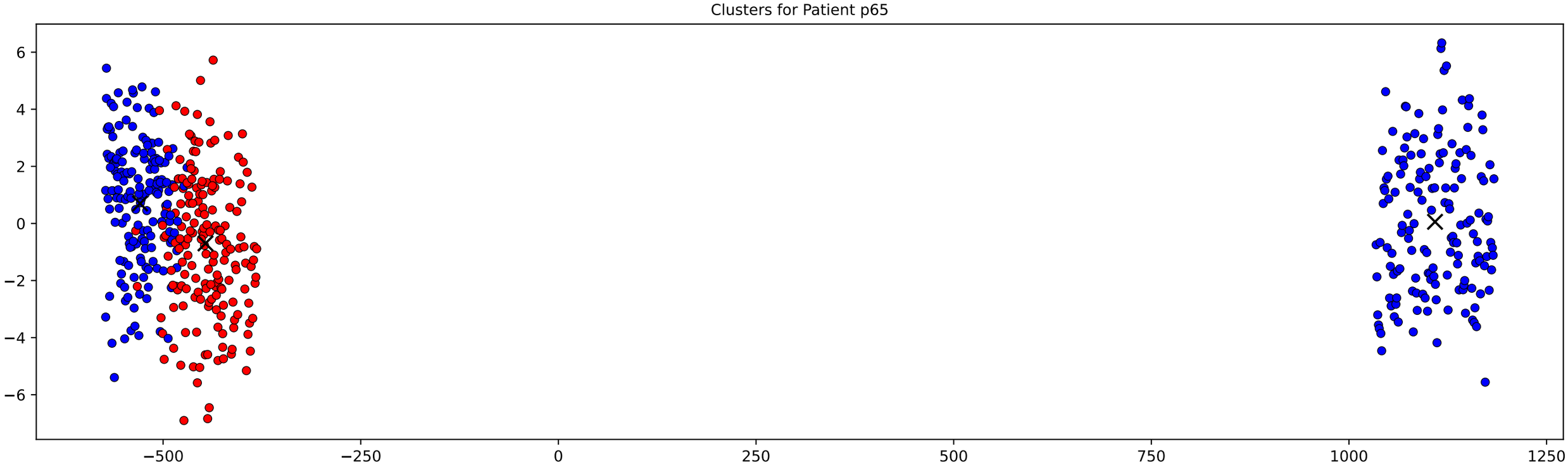
Features

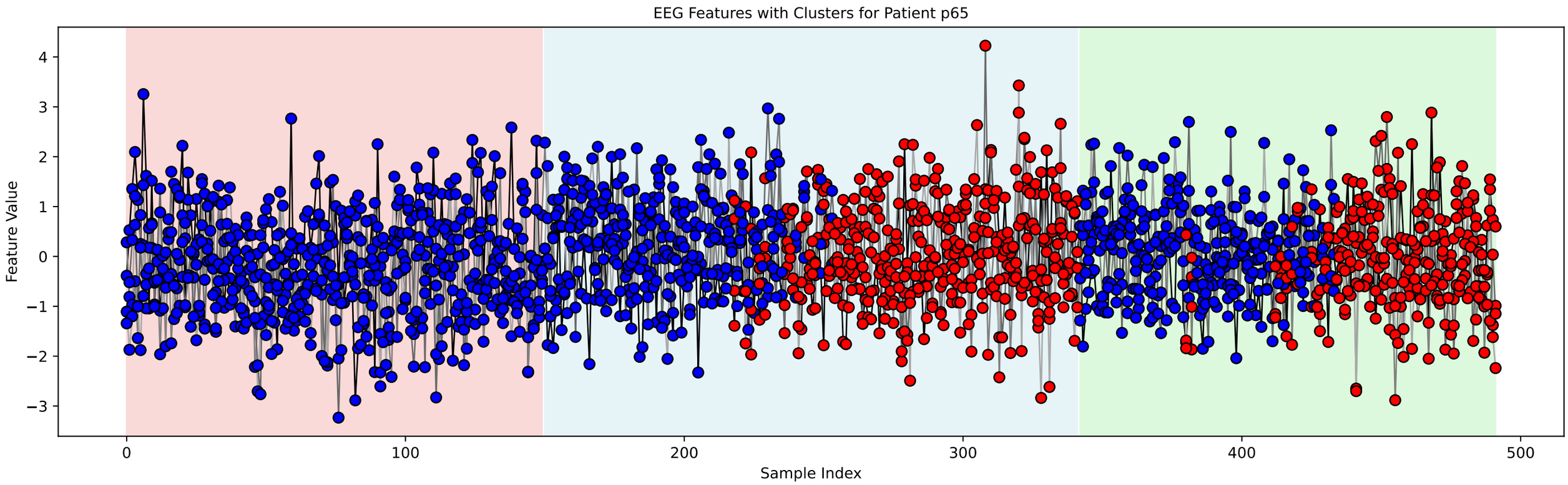
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std

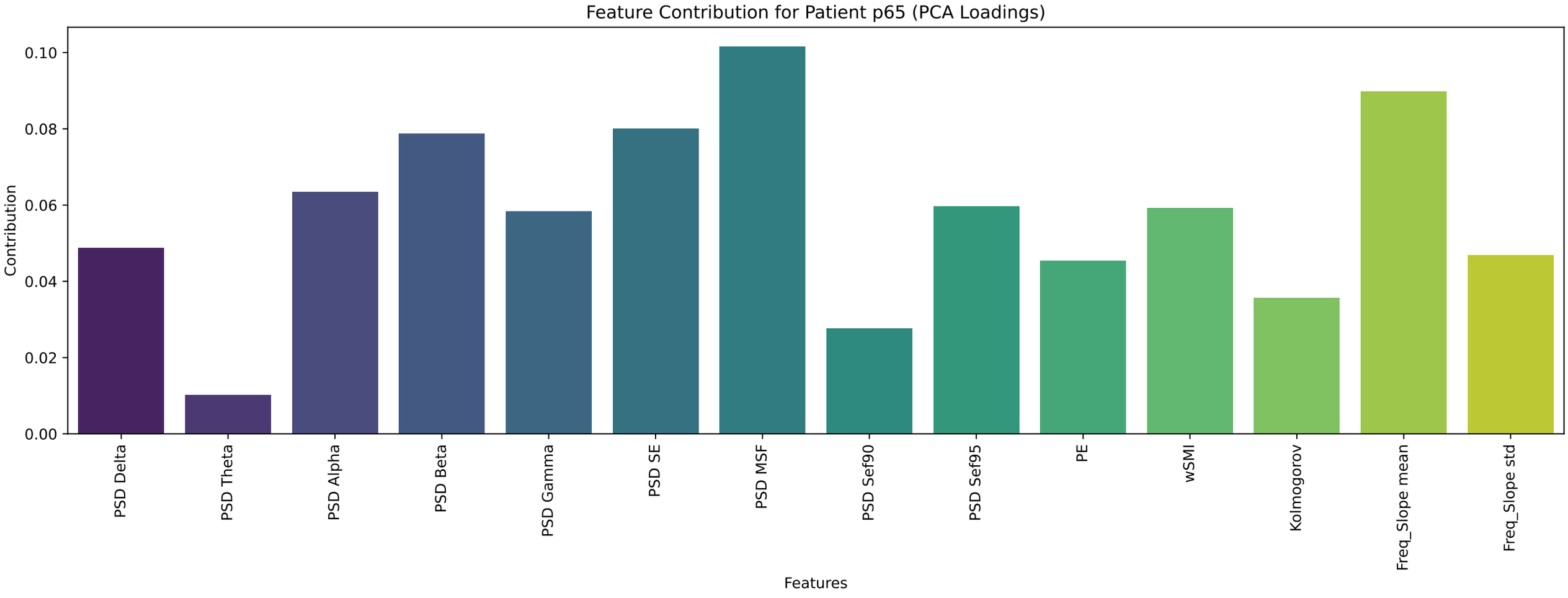

Clusters for Patient p63
6
4
2
0
−2
−4
−6
−600
−400
−200
0
200
400
600
800
1000


EEG Features with Clusters for Patient p63
Feature Value
3
2
1
0
−1
−2
−3
0
100
200
300
400
500
Sample Index


Feature Contribution for Patient p63 (PCA Loadings)
Contribution
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features


Clusters for Patient p65
6
4
2
0
−2
−4
−6
−500
−250
0
250
500
750
1000
1250


EEG Features with Clusters for Patient p65
Feature Value
4
3
2
1
0
−1
−2
−3
0
100
200
300
400
500
Sample Index


Feature Contribution for Patient p65 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

Clusters for Patient p66

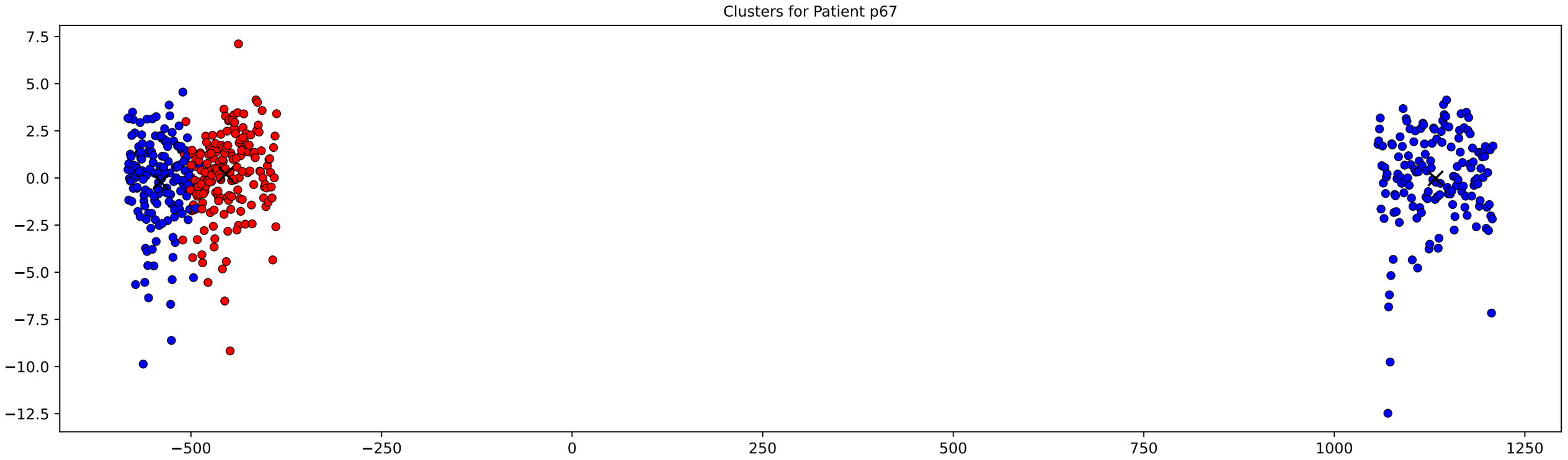
5
0
−5
−10
−15
−500
−250
0
250
500
750
1000
1250

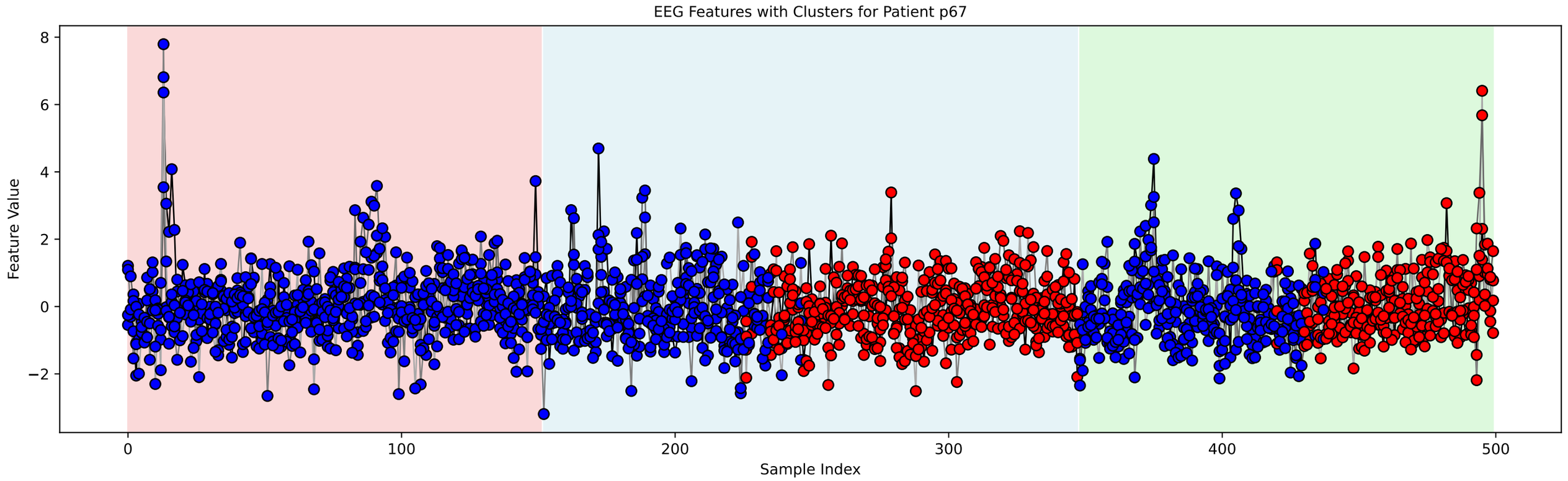
EEG Features with Clusters for Patient p66

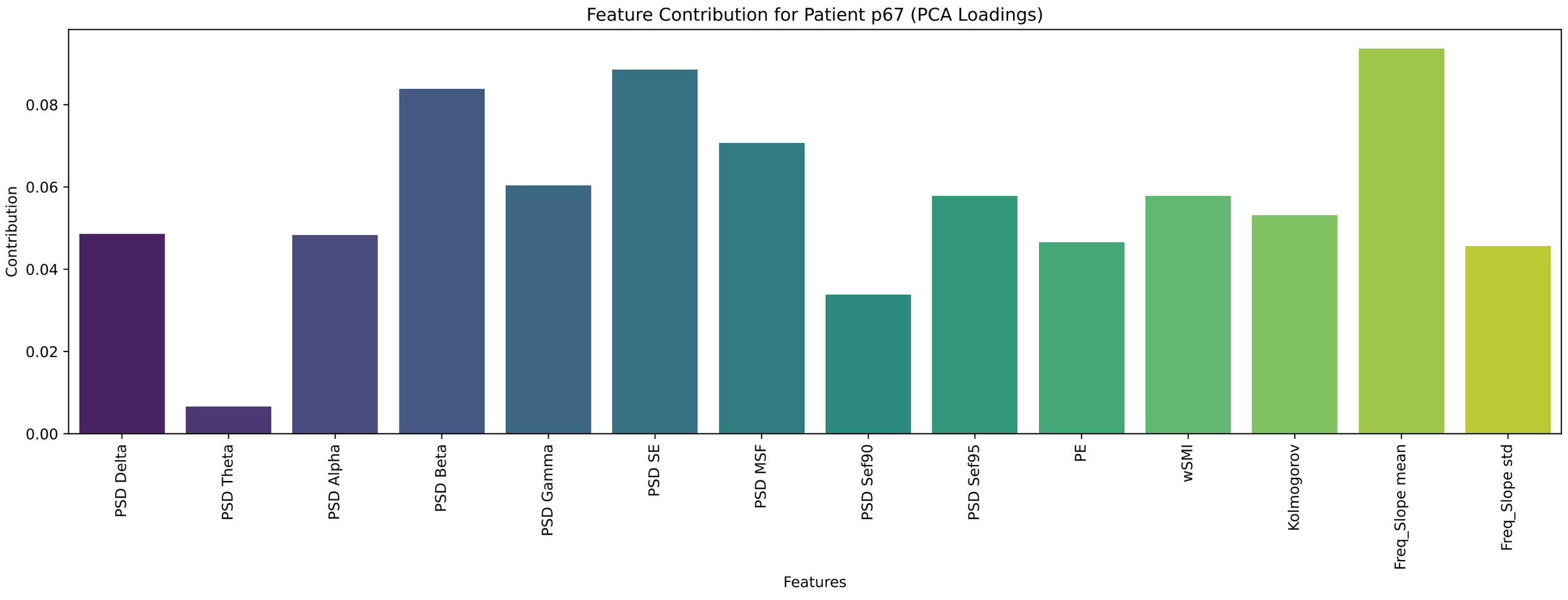
Feature Value
8
6
4
2
0
−2
0
100
200
300
400
500
Sample Index

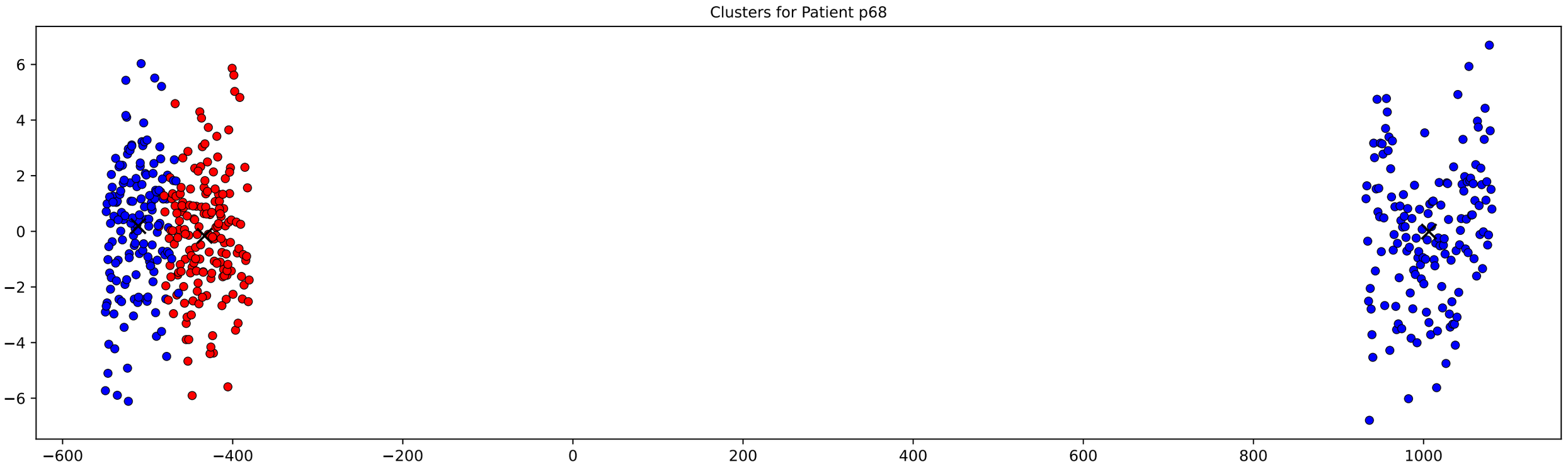
Feature Contribution for Patient p66 (PCA Loadings)

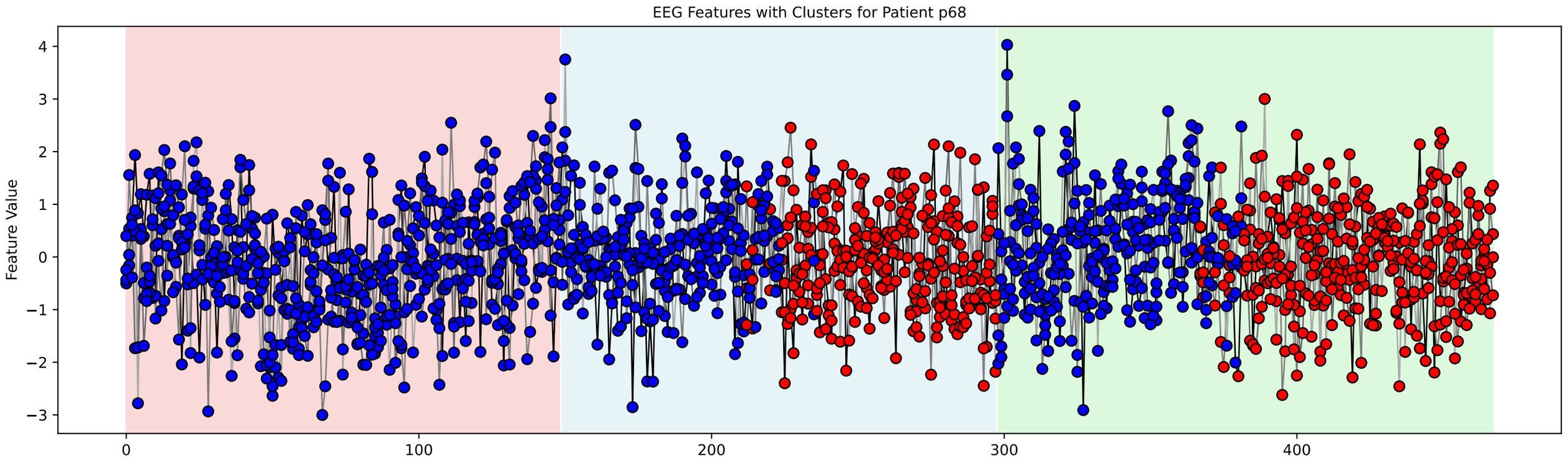
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

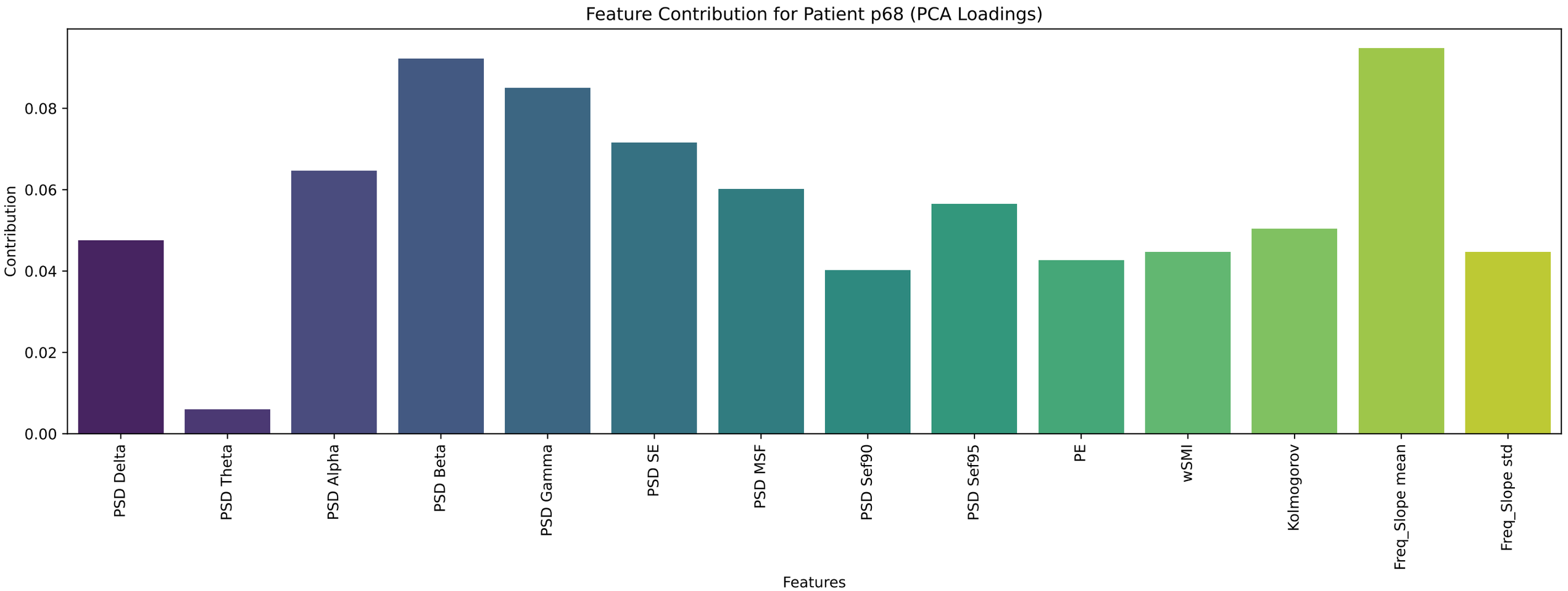

Clusters for Patient p67
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−12.5
−500
−250
0
250
500
750
1000
1250

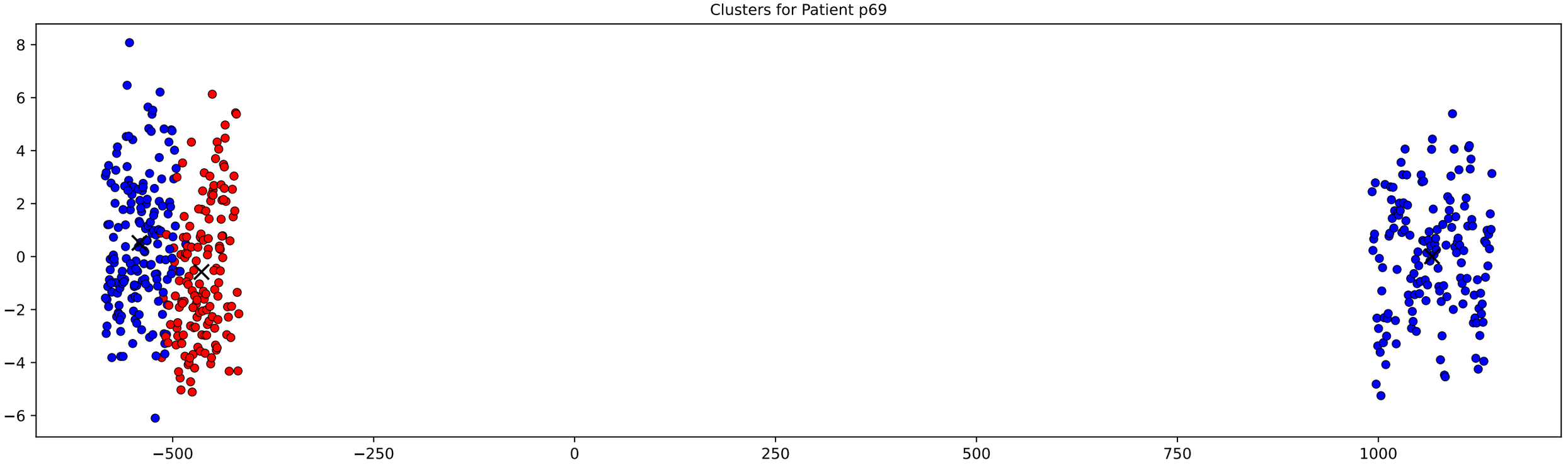

EEG Features with Clusters for Patient p67
Feature Value
8
6
4
2
0
−2
0
100
200
300
400
500
Sample Index

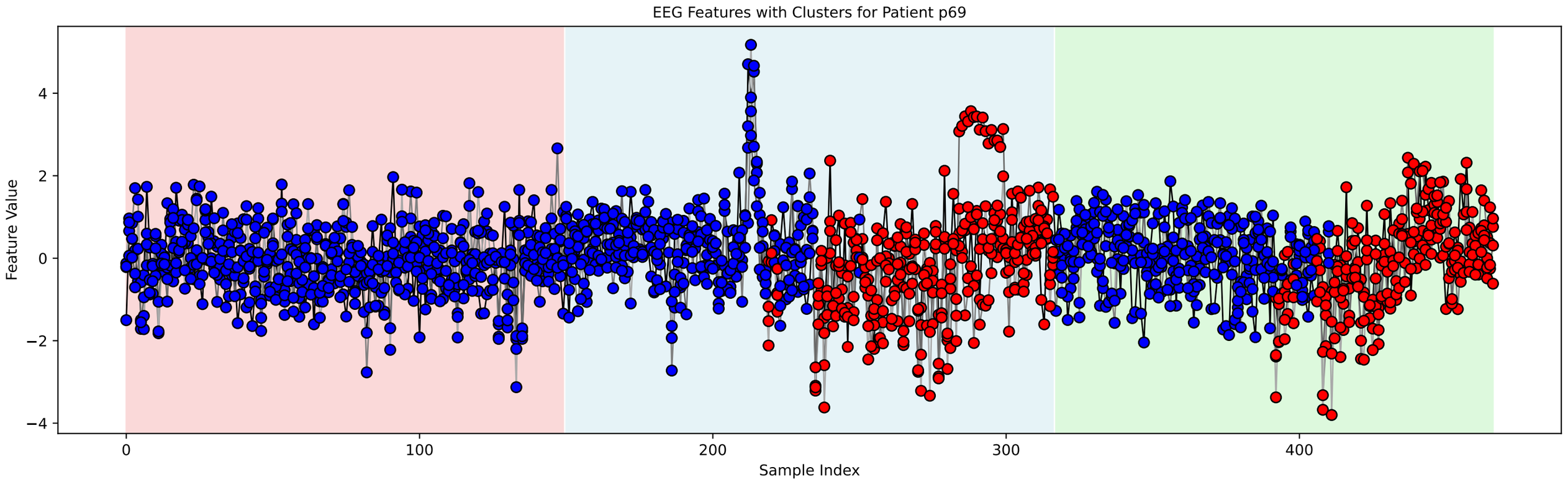

Feature Contribution for Patient p67 (PCA Loadings)
Contribution
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

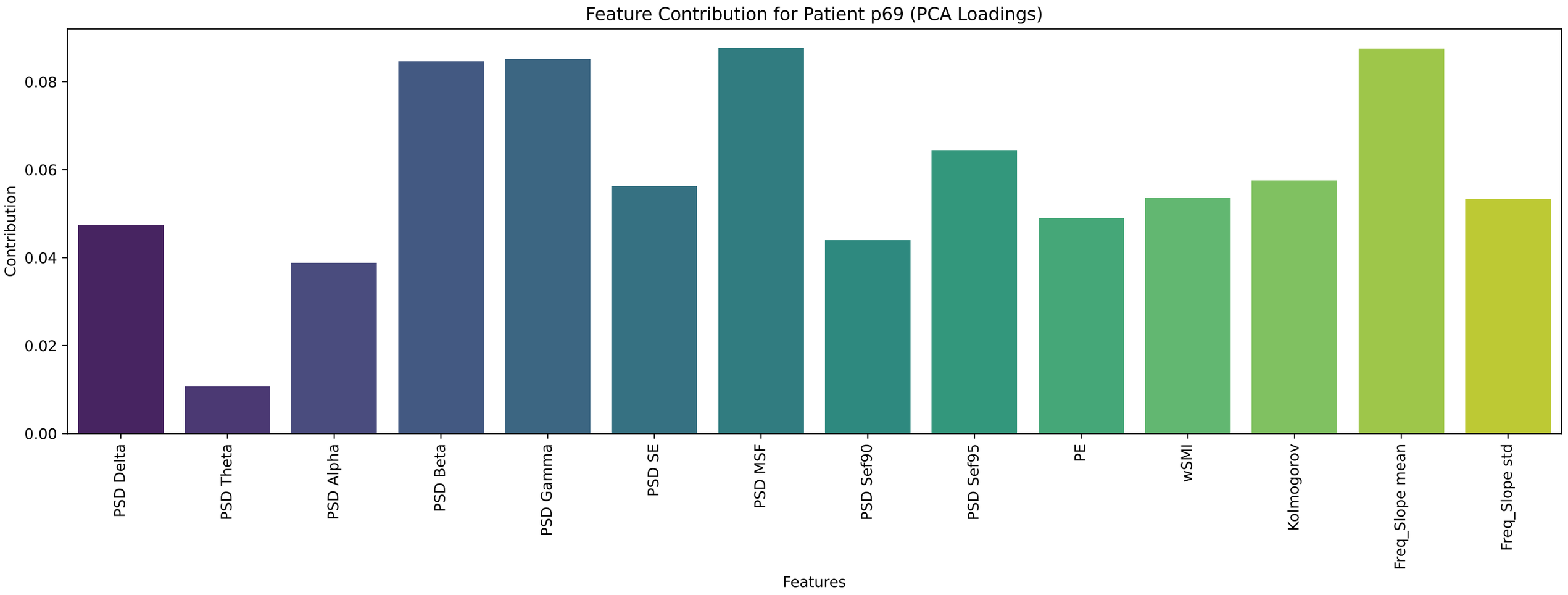

Clusters for Patient p68
6
4
2
0
−2
−4
−6
−600
−400
−200
0
200
400
600
800
1000

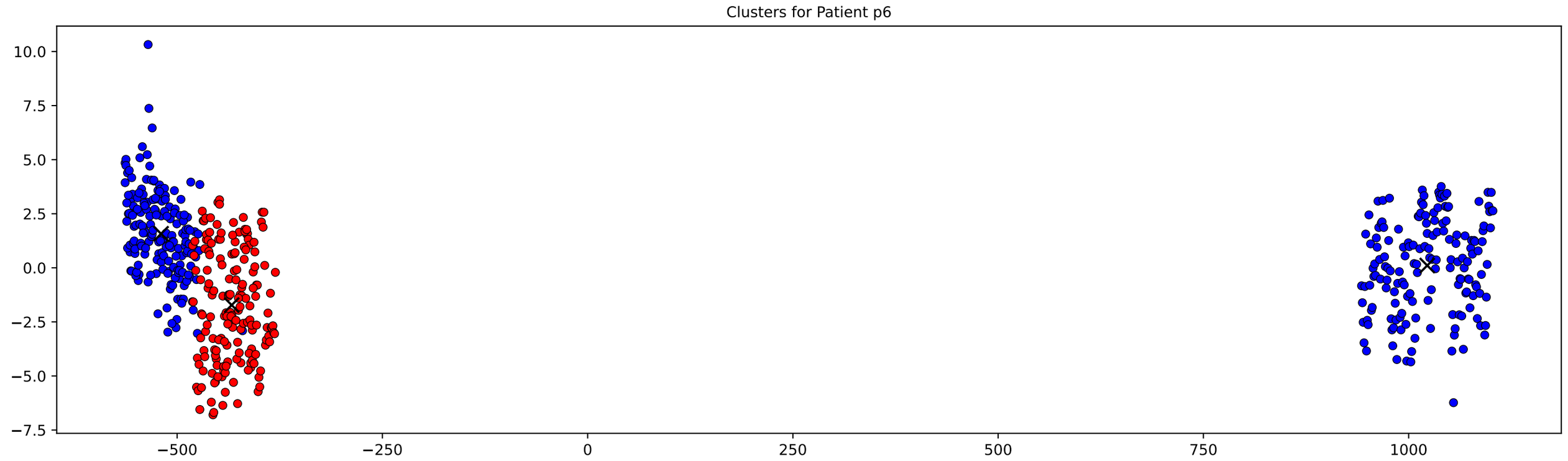

EEG Features with Clusters for Patient p68
Feature Value
4
3
2
1
0
−1
−2
−3
0
100
200
300
400
Sample Index

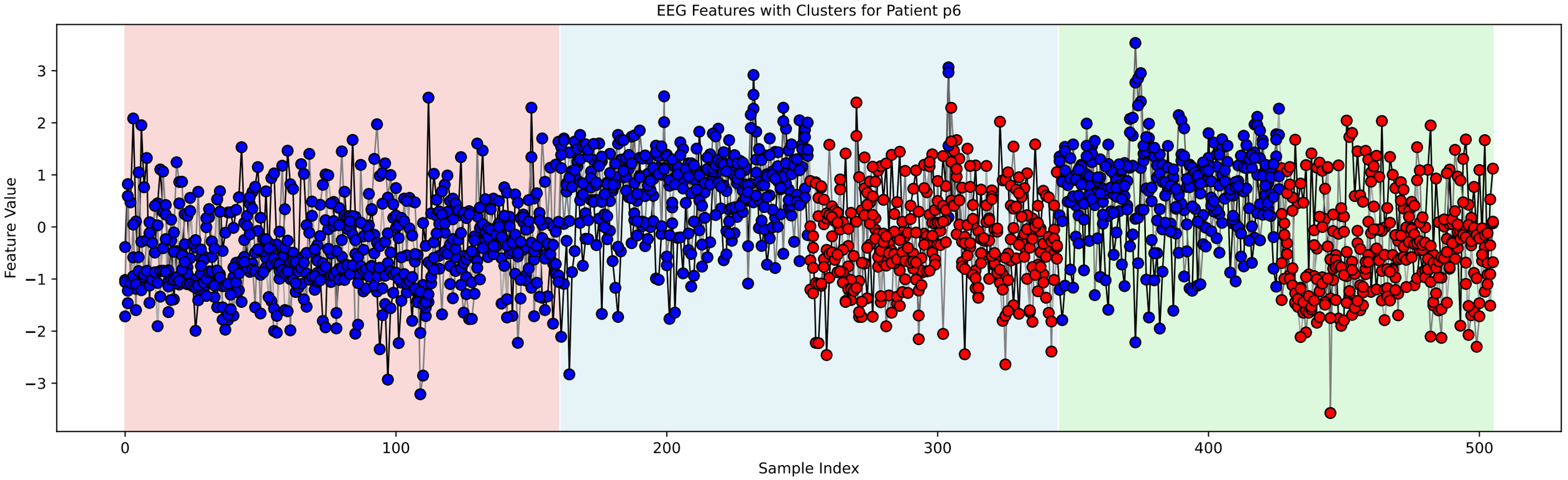

Feature Contribution for Patient p68 (PCA Loadings)
Contribution
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

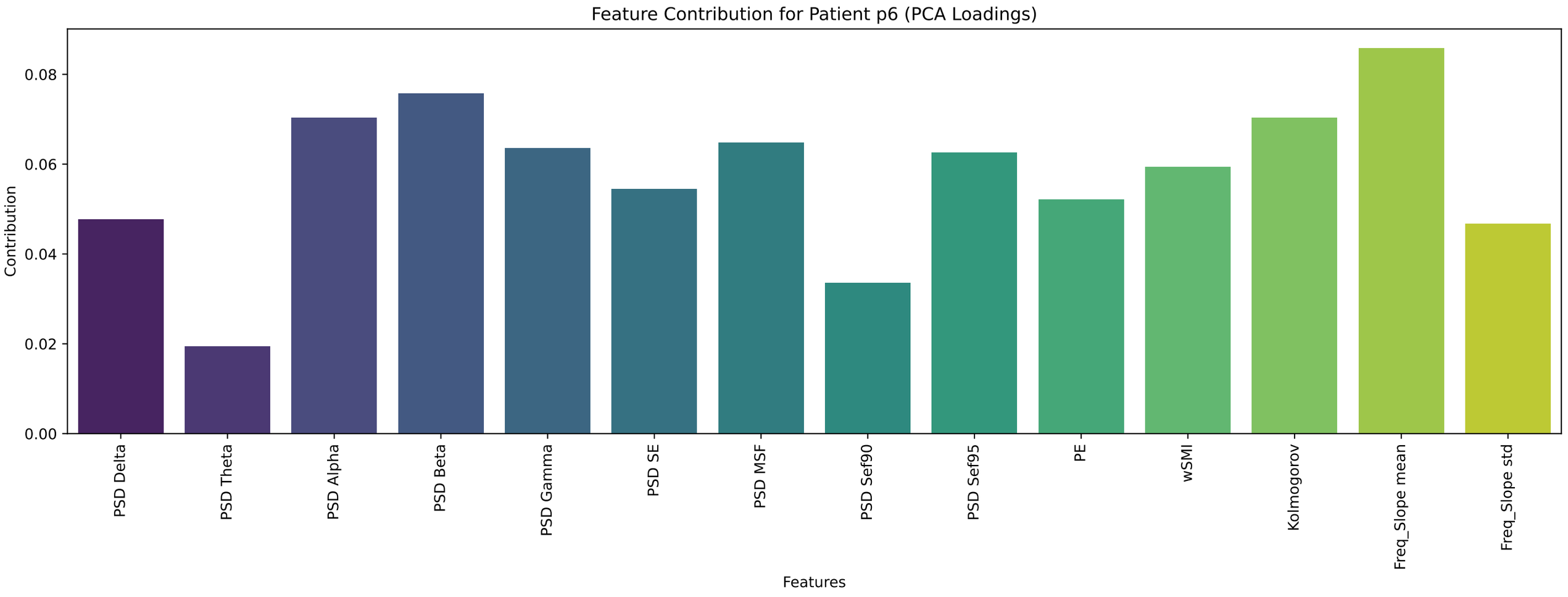

Clusters for Patient p69
8
6
4
2
0
−2
−4
−6
−500
−250
0
250
500
750
1000

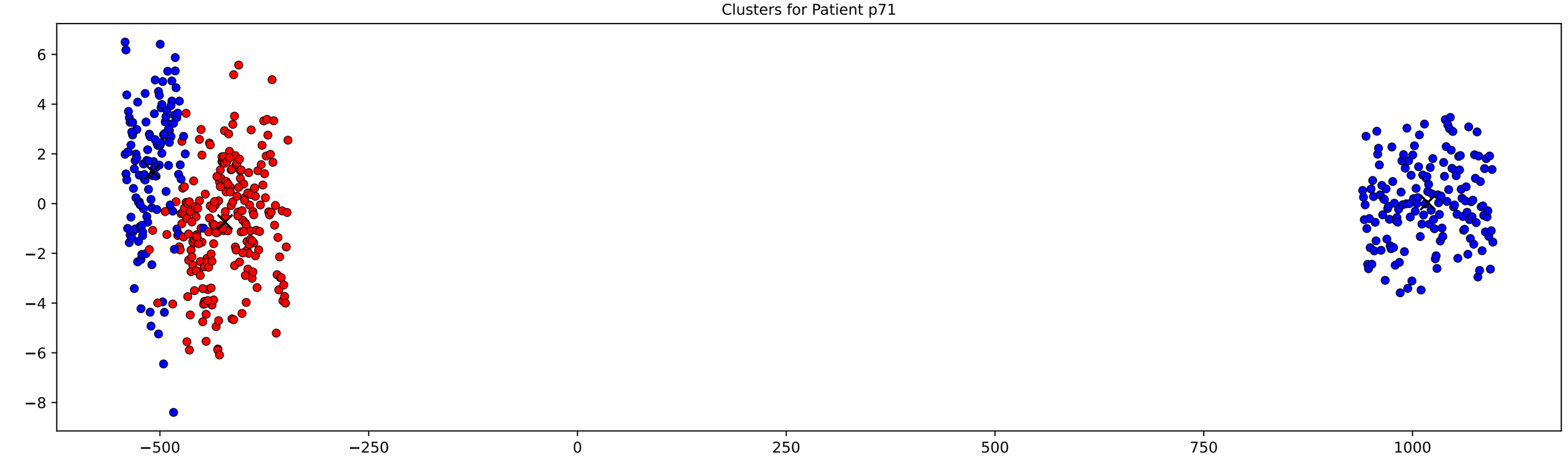

EEG Features with Clusters for Patient p69
Feature Value
4
2
0
−2
−4
0
100
200
300
400
Sample Index

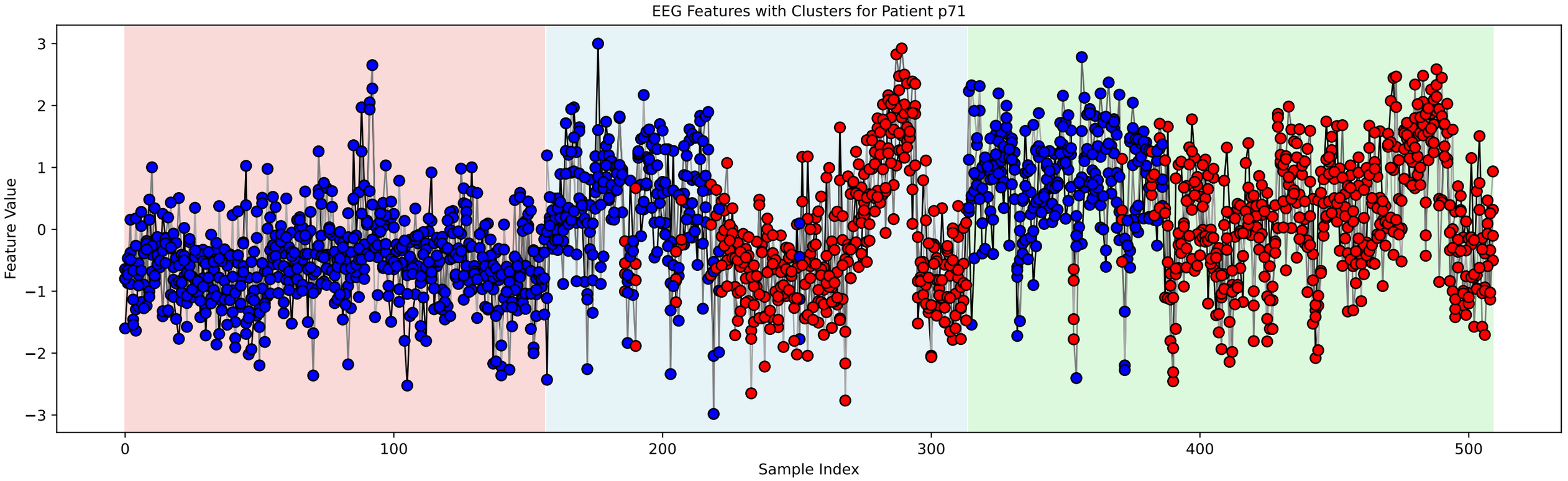

Feature Contribution for Patient p69 (PCA Loadings)
Contribution
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

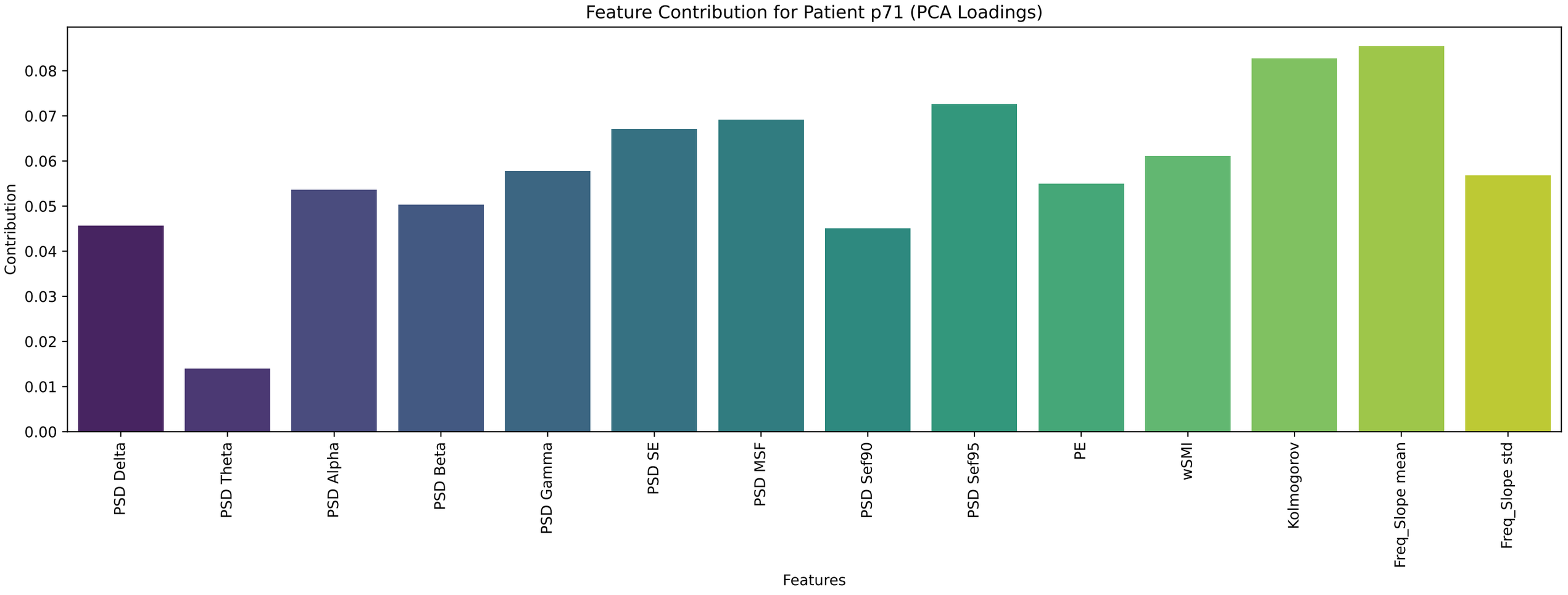

Clusters for Patient p6
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−500
−250
0
250
500
750
1000

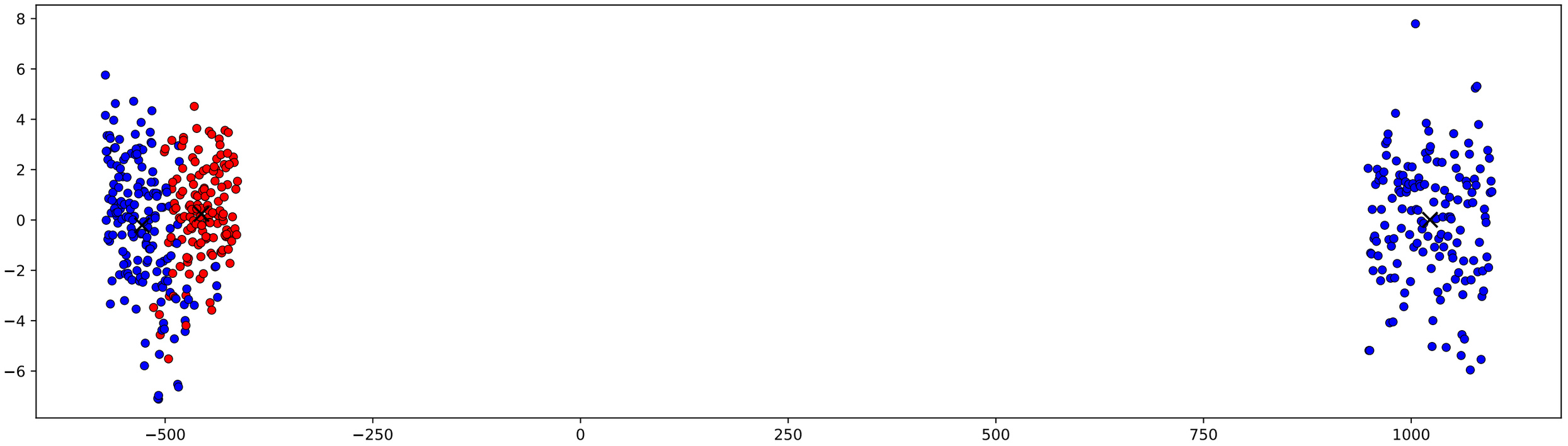

EEG Features with Clusters for Patient p6
Feature Value
3
2
1
0
−1
−2
−3
0
100
200
300
400
500
Sample Index

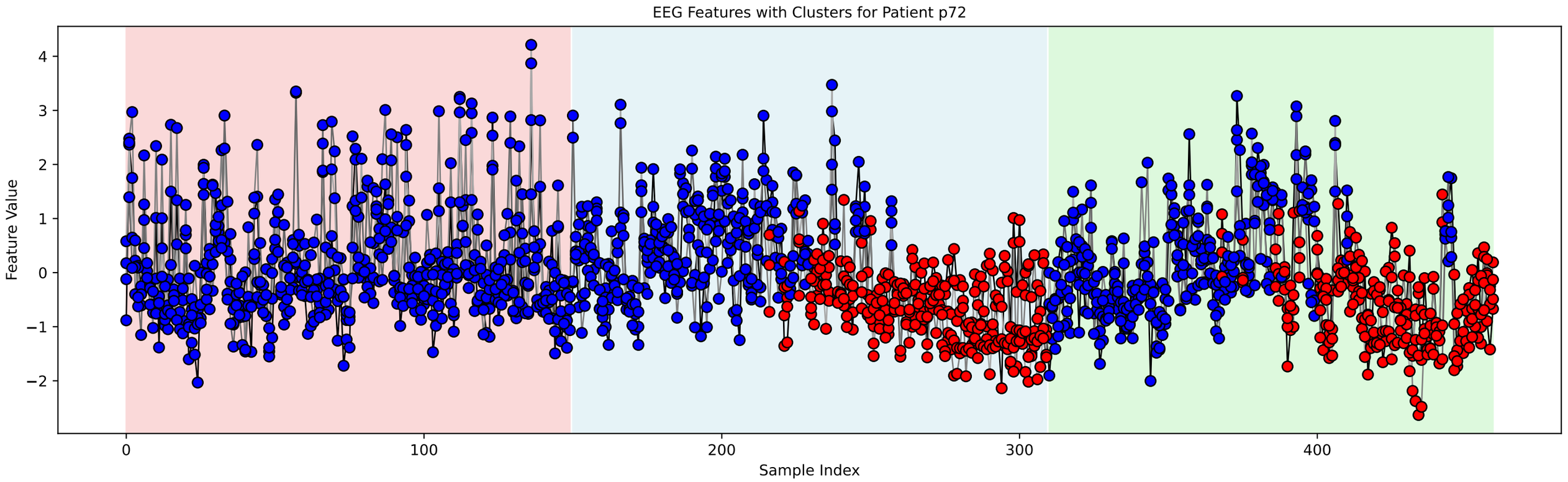

Feature Contribution for Patient p6 (PCA Loadings)
Contribution
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

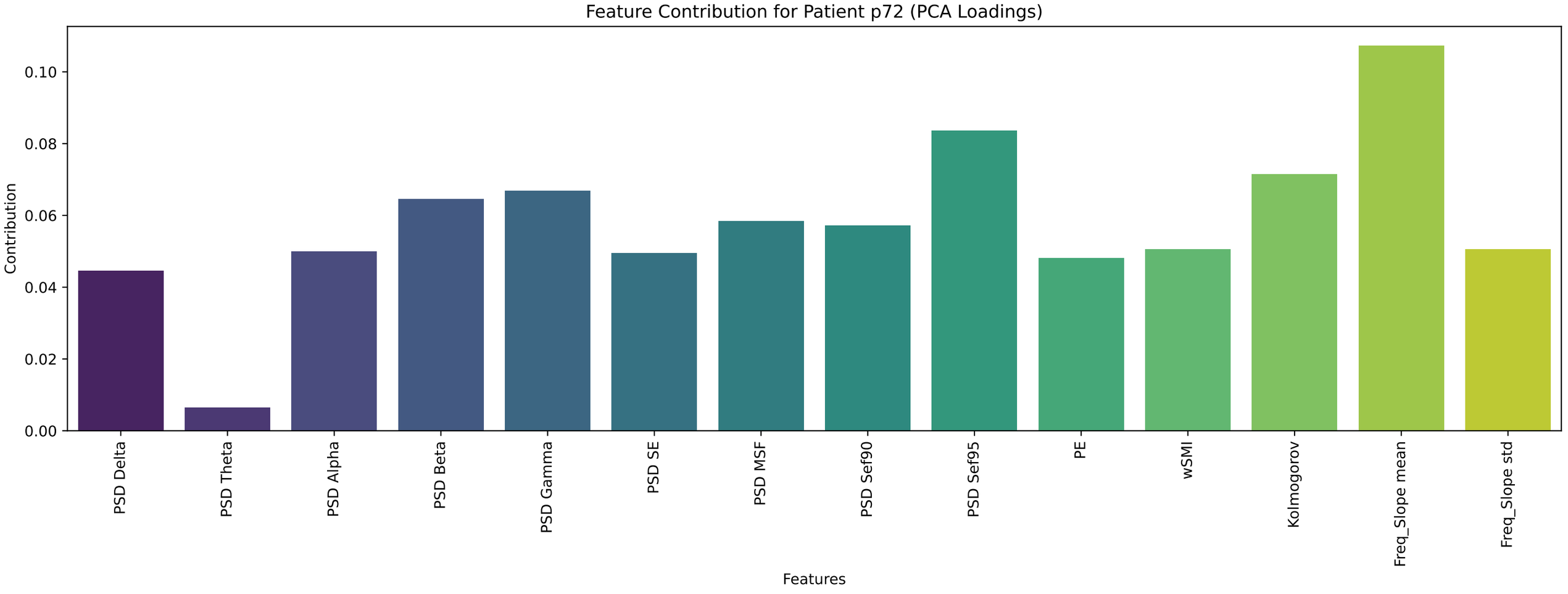

Clusters for Patient p71
6
4
2
0
−2
−4
−6
−8
−500
−250
0
250
500
750
1000


EEG Features with Clusters for Patient p71
Feature Value
3
2
1
0
−1
−2
−3
0
100
200
300
400
500
Sample Index

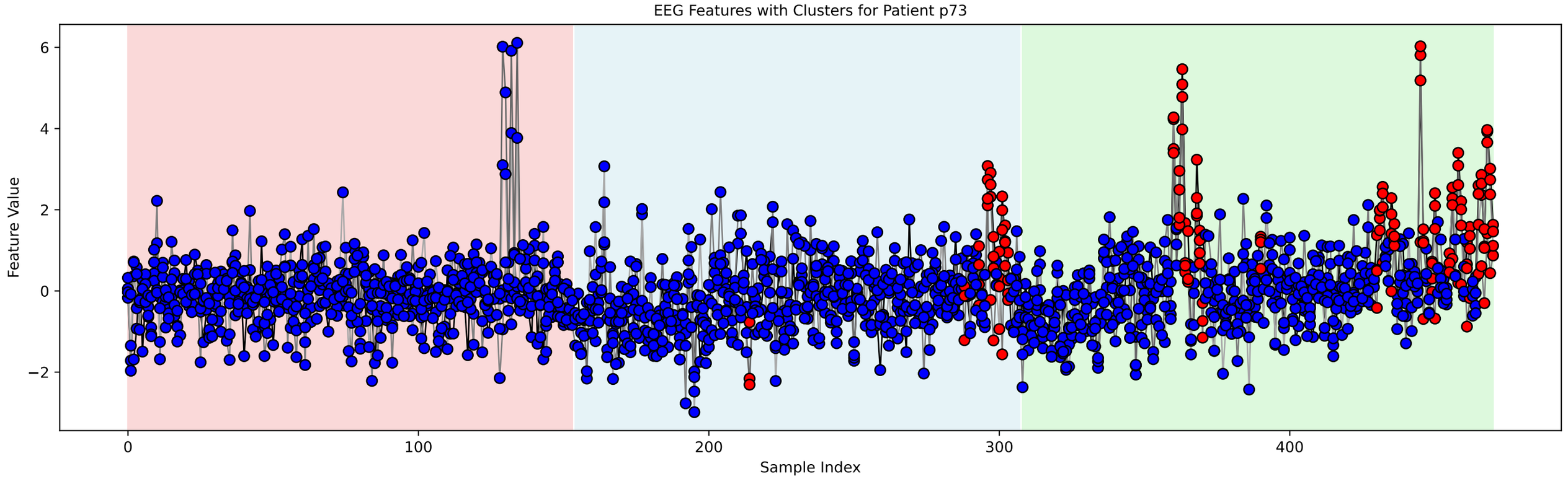

Feature Contribution for Patient p71 (PCA Loadings)
Contribution
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

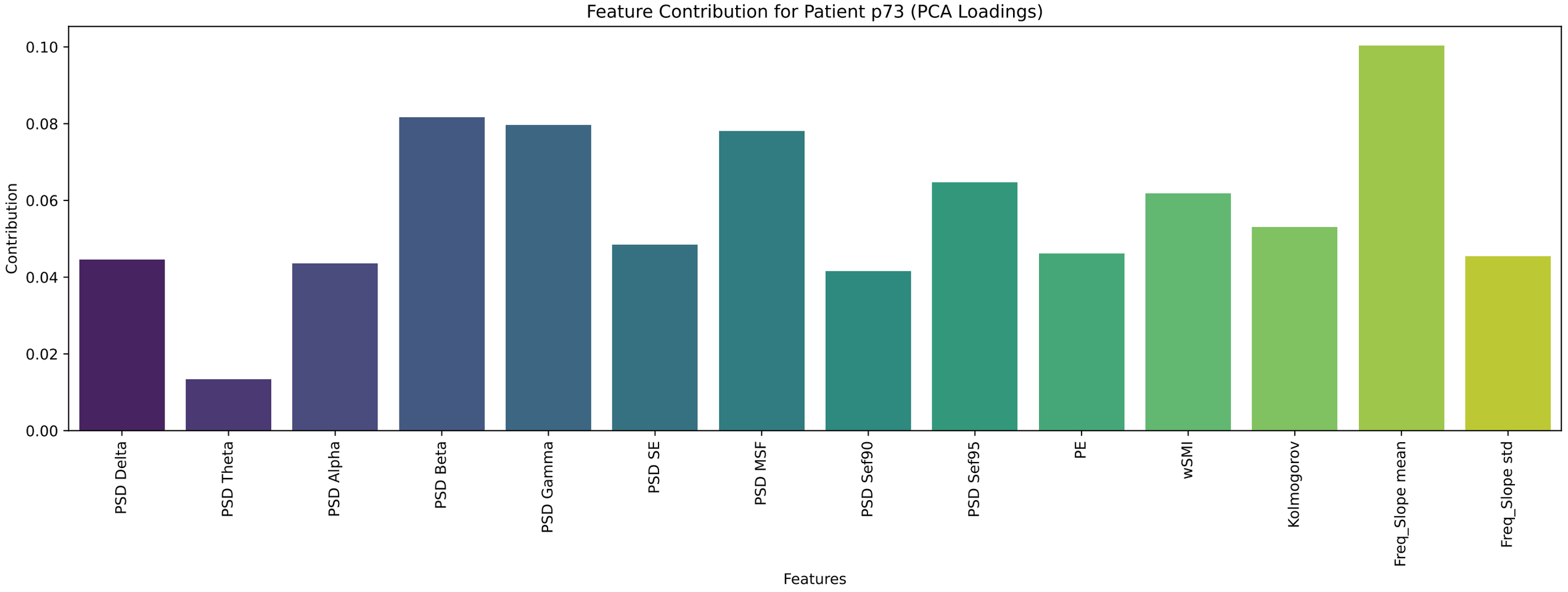

Clusters for Patient p72
8
6
4
2
0
−2
−4
−6
−500
−250
0
250
500
750
1000


EEG Features with Clusters for Patient p72
Feature Value
4
3
2
1
0
−1
−2
0
100
200
300
400
Sample Index


Feature Contribution for Patient p72 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

Clusters for Patient p73
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−12.5
−600
−400
−200
0
200
400
600
800
1000


EEG Features with Clusters for Patient p73
Feature Value
6
4
2
0
−2
0
100
200
300
400
Sample Index


Feature Contribution for Patient p73 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

Clusters for Patient p74

6
4
2
0
−2
−4
−6

−500 −250 0 250 500 750 1000

EEG Features with Clusters for Patient p74

Feature Value

6
4
2
0
−2

0 100 200 300 400 500 600 700

Sample Index

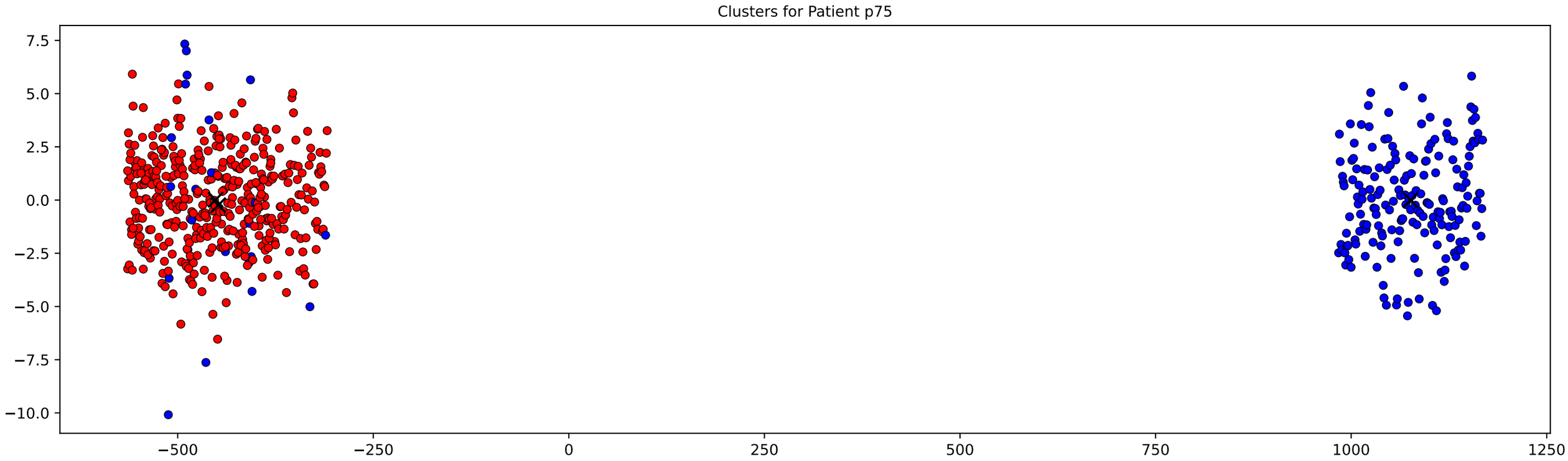
Feature Contribution for Patient p74 (PCA Loadings)

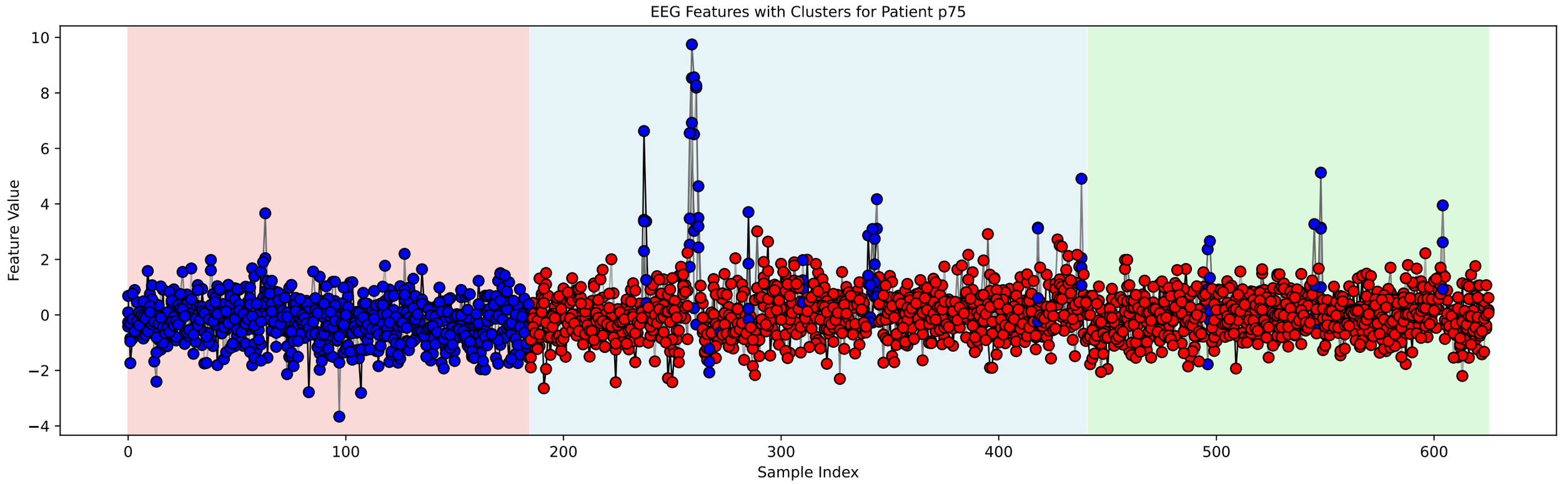
Contribution

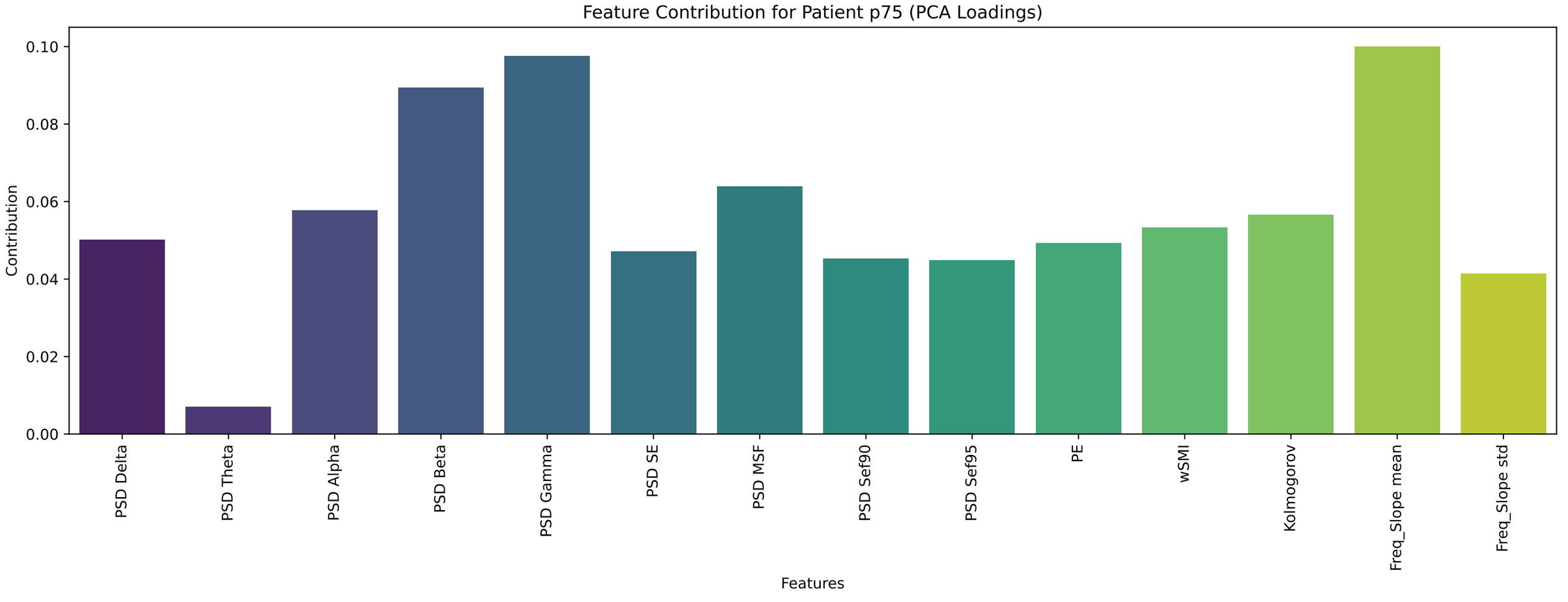
0.10
0.08
0.06
0.04
0.02
0.00

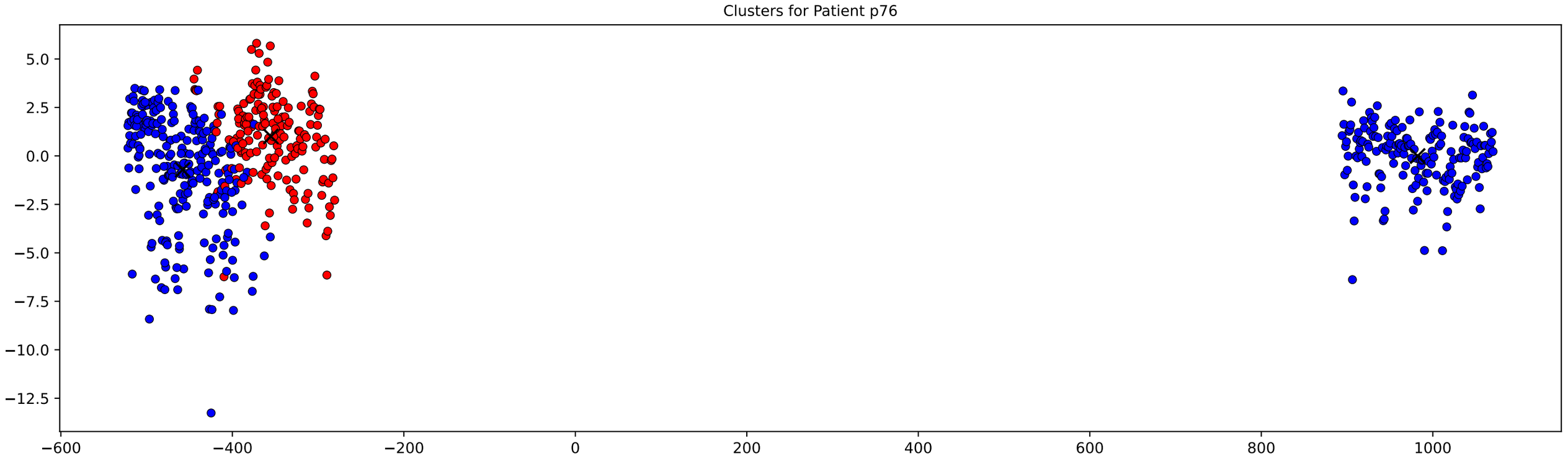
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std

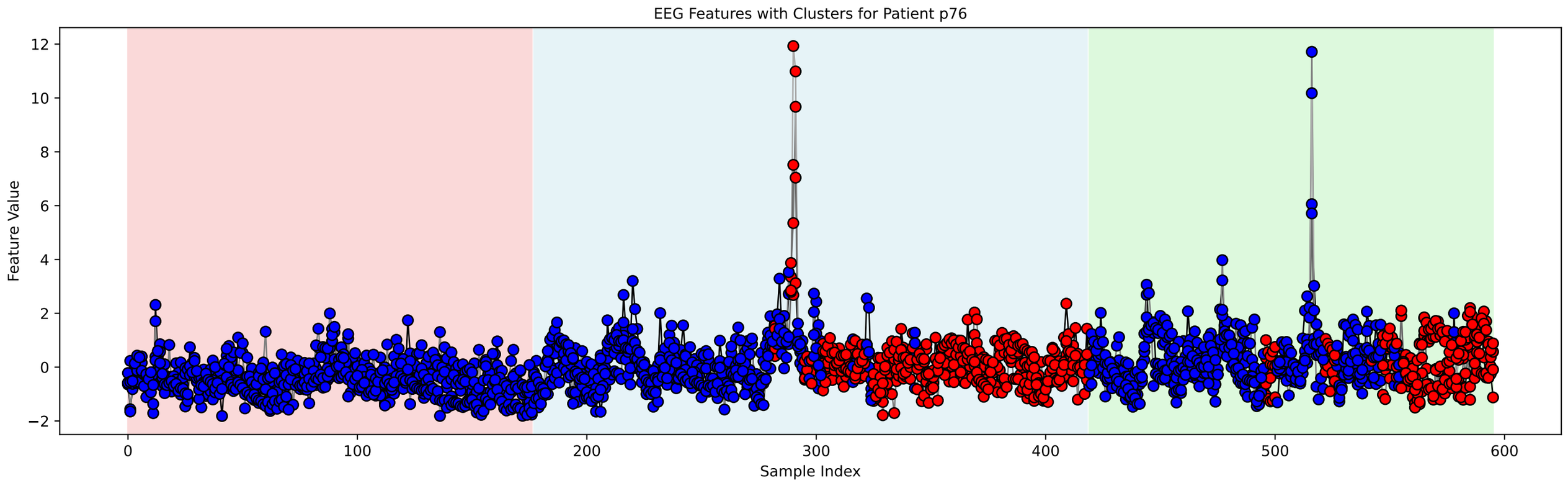
Features

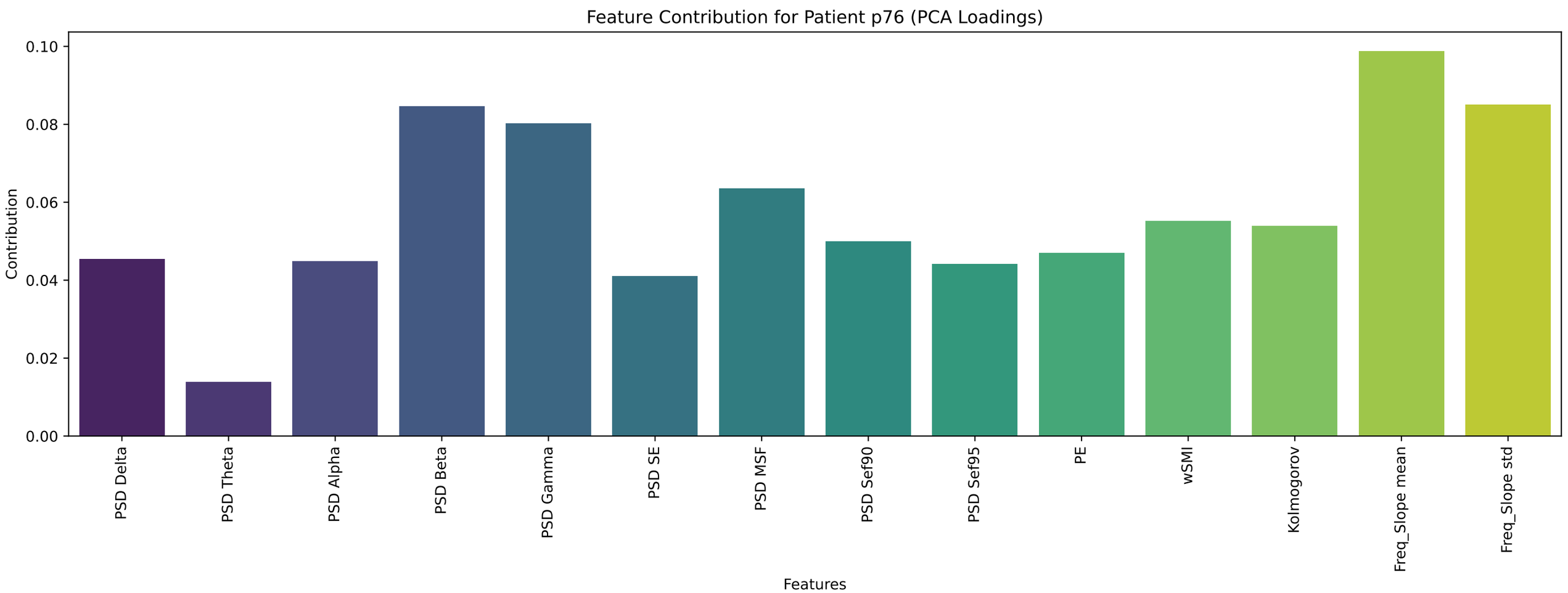

Clusters for Patient p75
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−500
−250
0
250
500
750
1000
1250

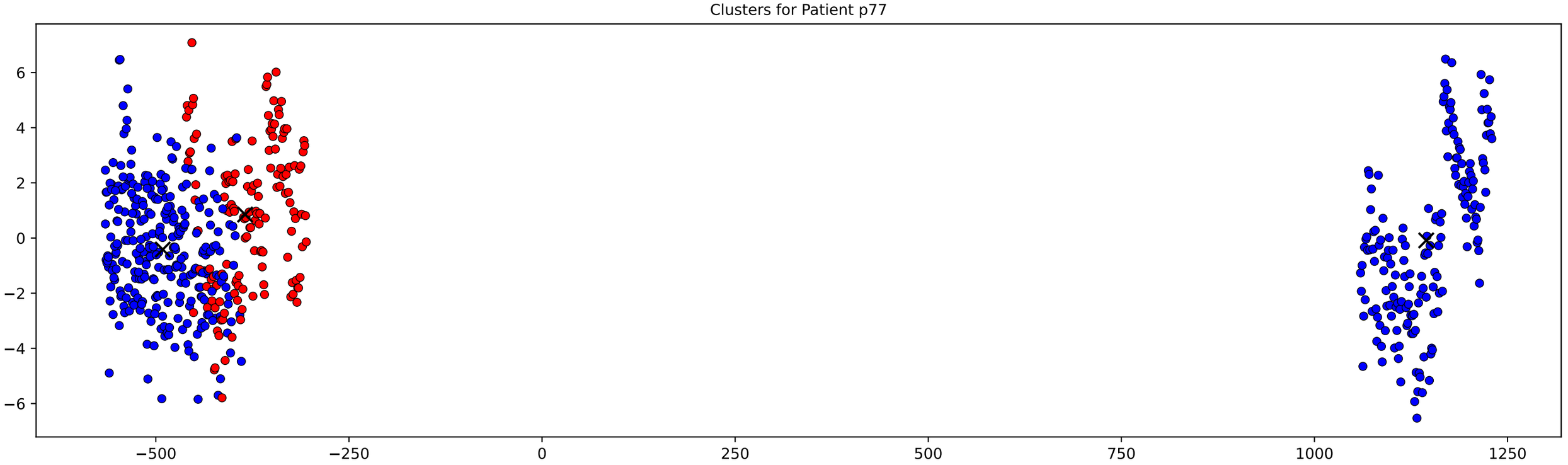

EEG Features with Clusters for Patient p75
Feature Value
10
8
6
4
2
0
−2
−4
0
100
200
300
400
500
600
Sample Index

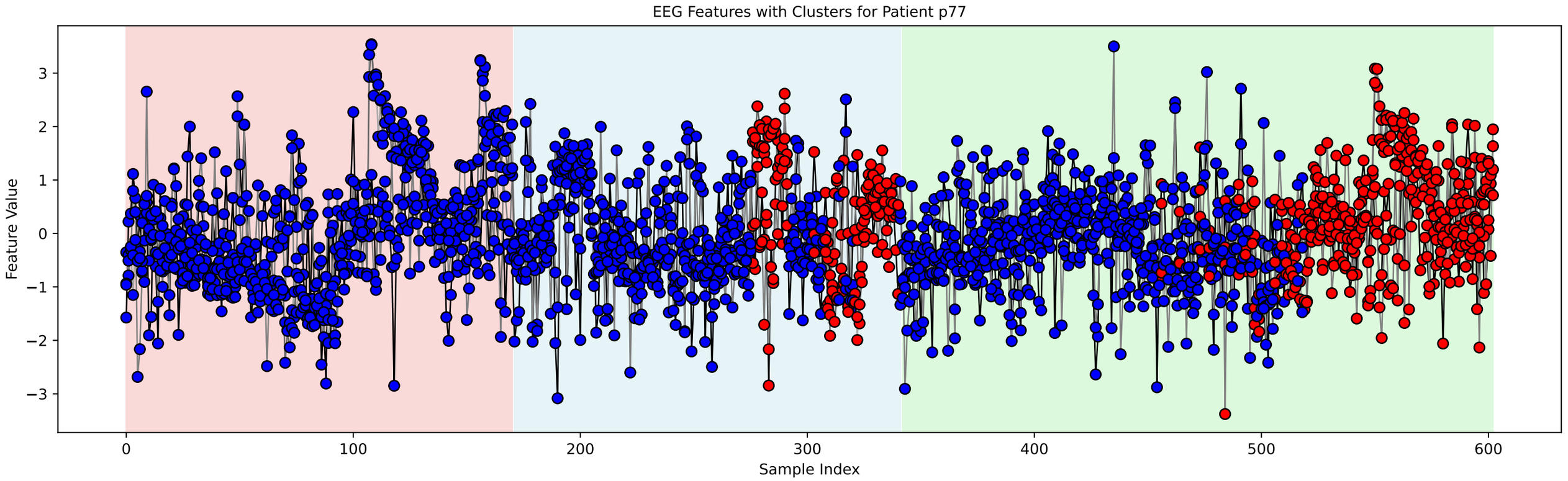

Feature Contribution for Patient p75 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

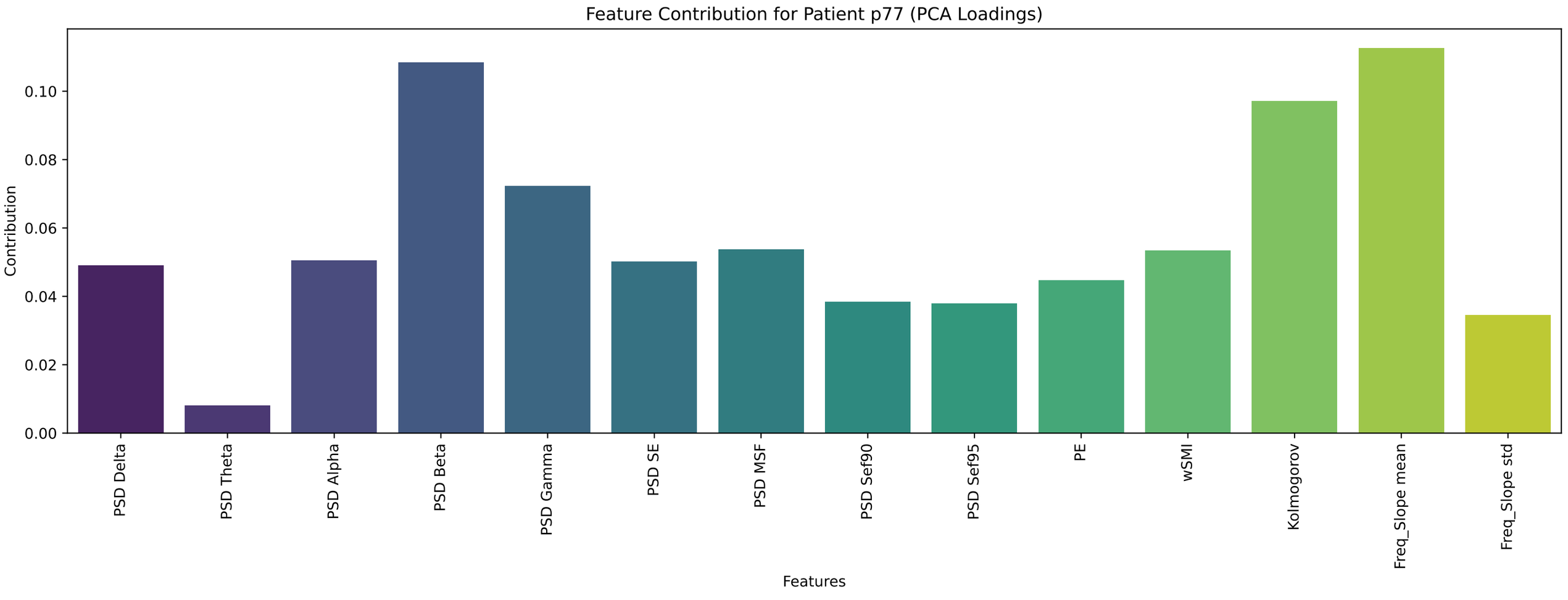

Clusters for Patient p76
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−12.5
−600
−400
−200
0
200
400
600
800
1000

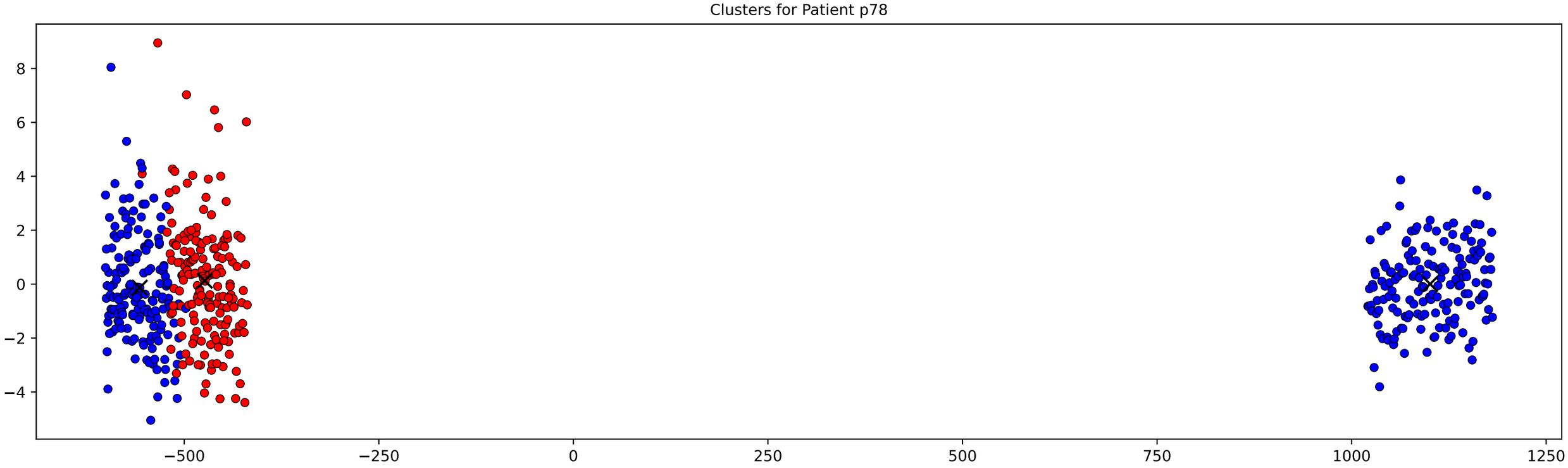

EEG Features with Clusters for Patient p76
Feature Value
12
10
8
6
4
2
0
−2
0
100
200
300
400
500
600
Sample Index

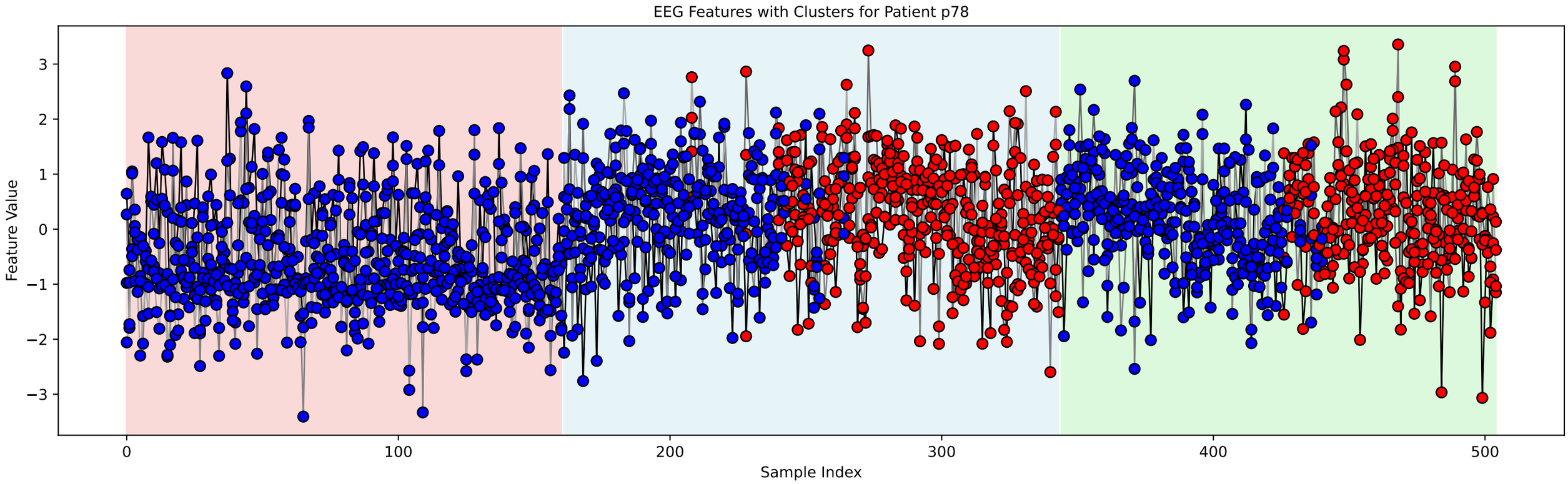

Feature Contribution for Patient p76 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

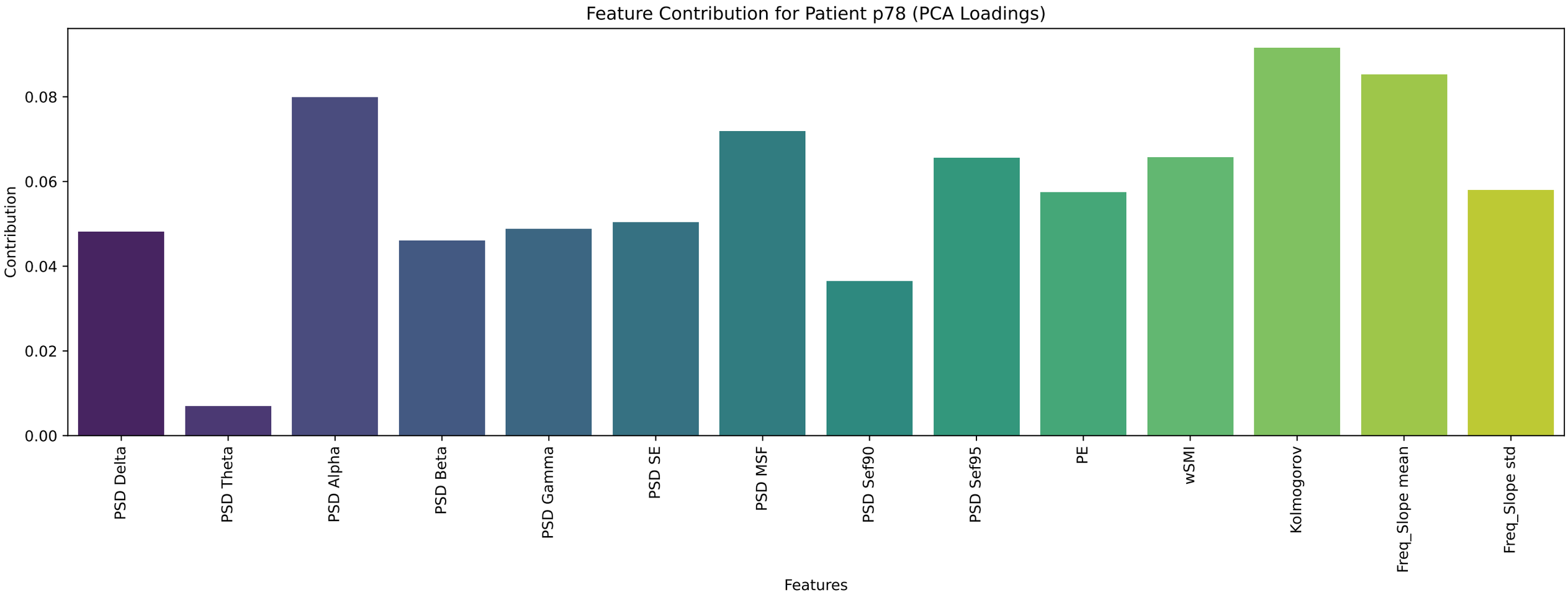

Clusters for Patient p77
6
4
2
0
−2
−4
−6
−500
−250
0
250
500
750
1000
1250

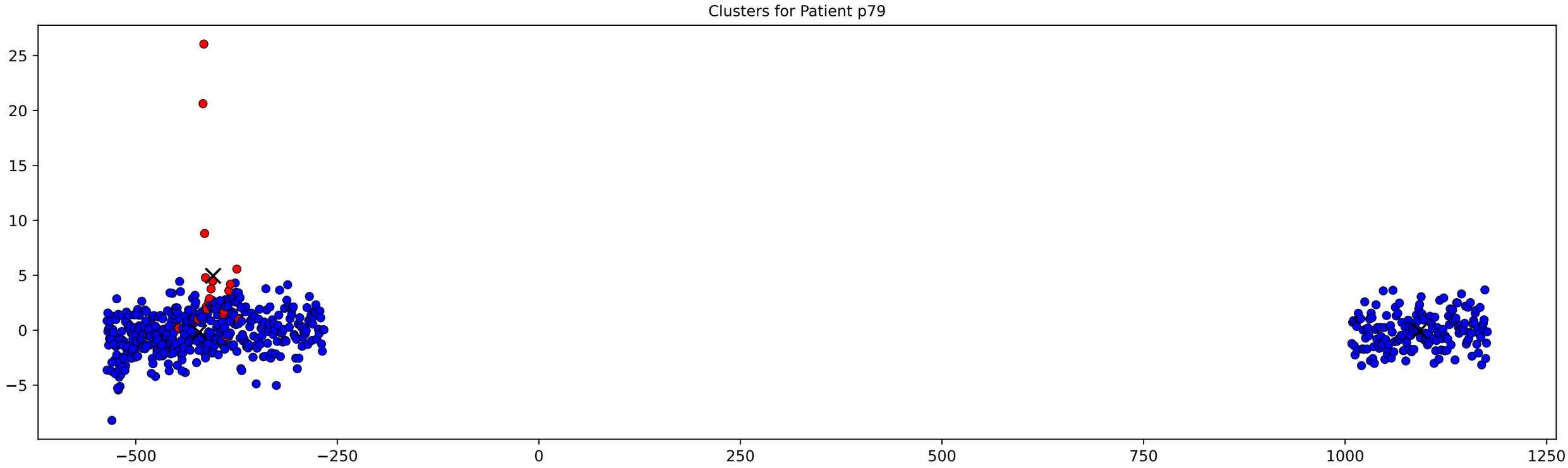

EEG Features with Clusters for Patient p77
Feature Value
3
2
1
0
−1
−2
−3
0
100
200
300
400
500
600
Sample Index

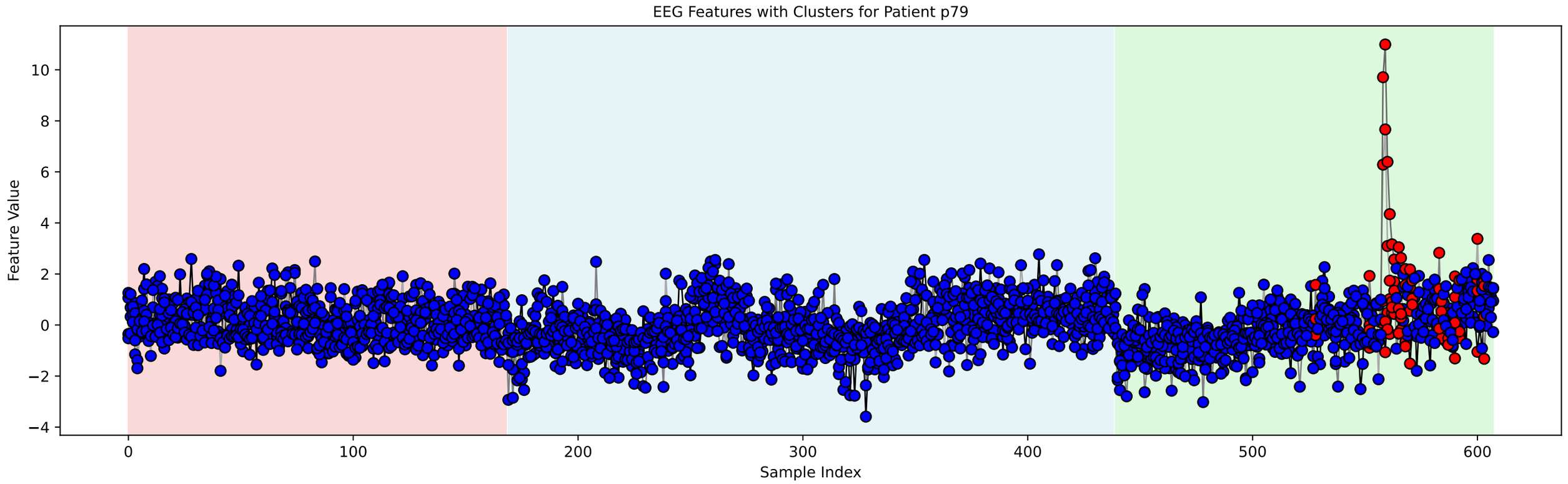

Feature Contribution for Patient p77 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

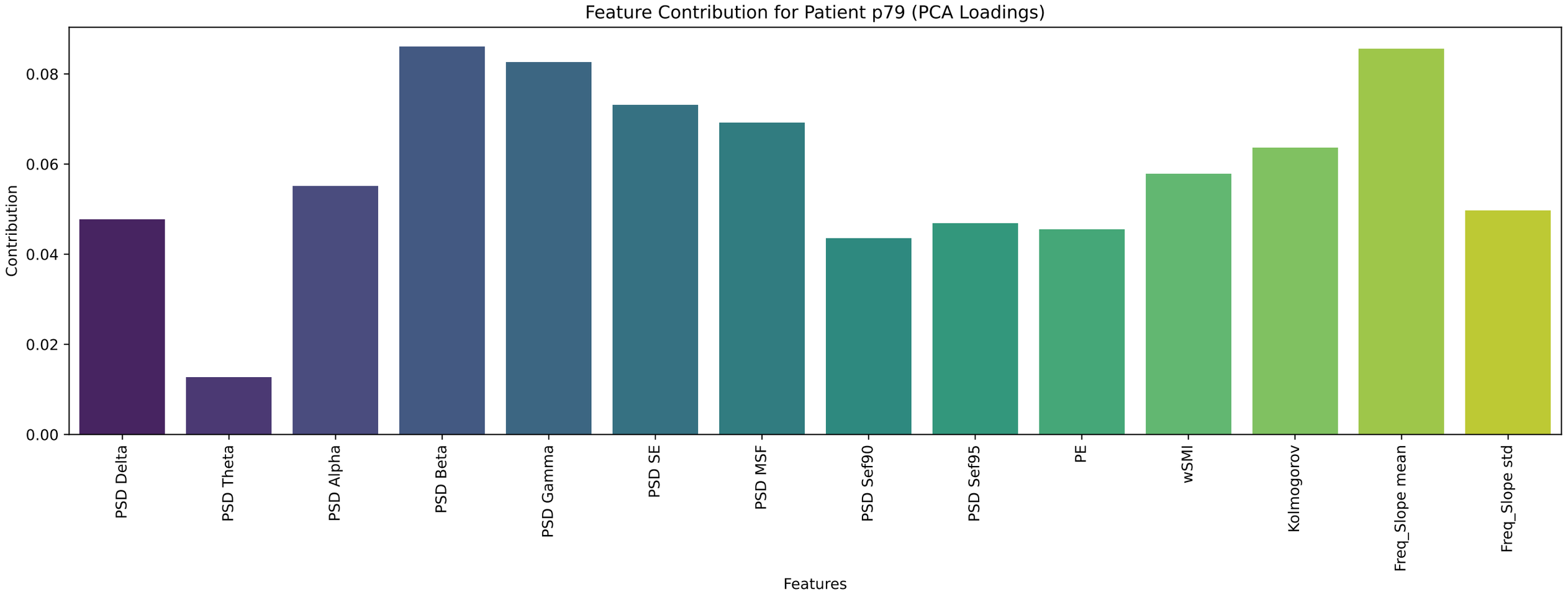

Clusters for Patient p78
8
6
4
2
0
−2
−4
−500
−250
0
250
500
750
1000
1250

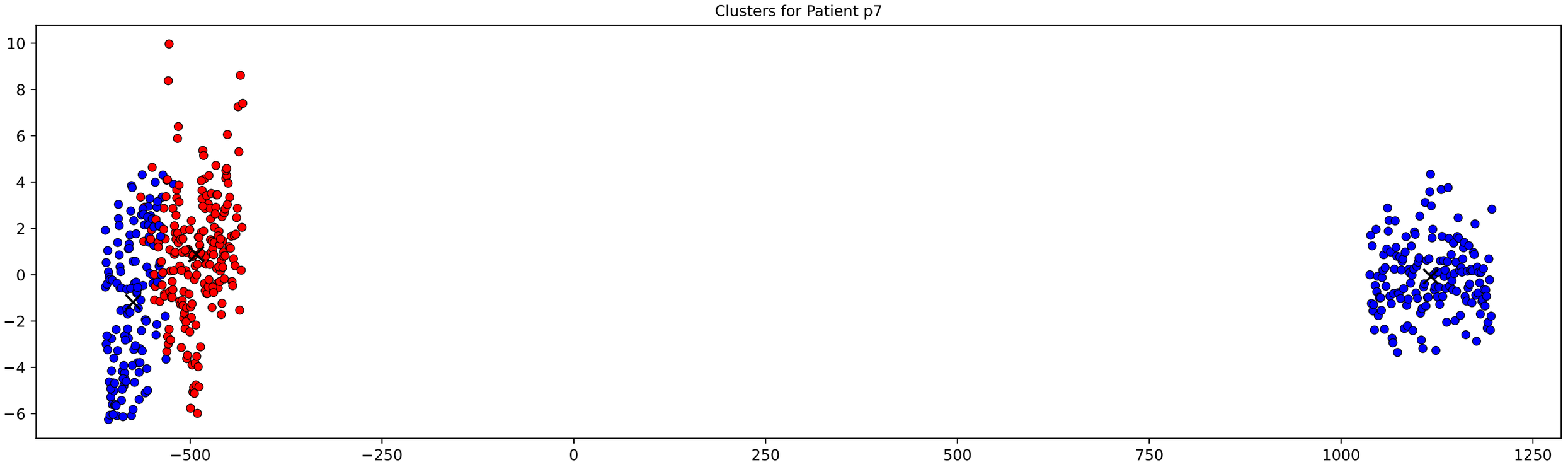

EEG Features with Clusters for Patient p78
Feature Value
3
2
1
0
−1
−2
−3
0
100
200
300
400
500
Sample Index

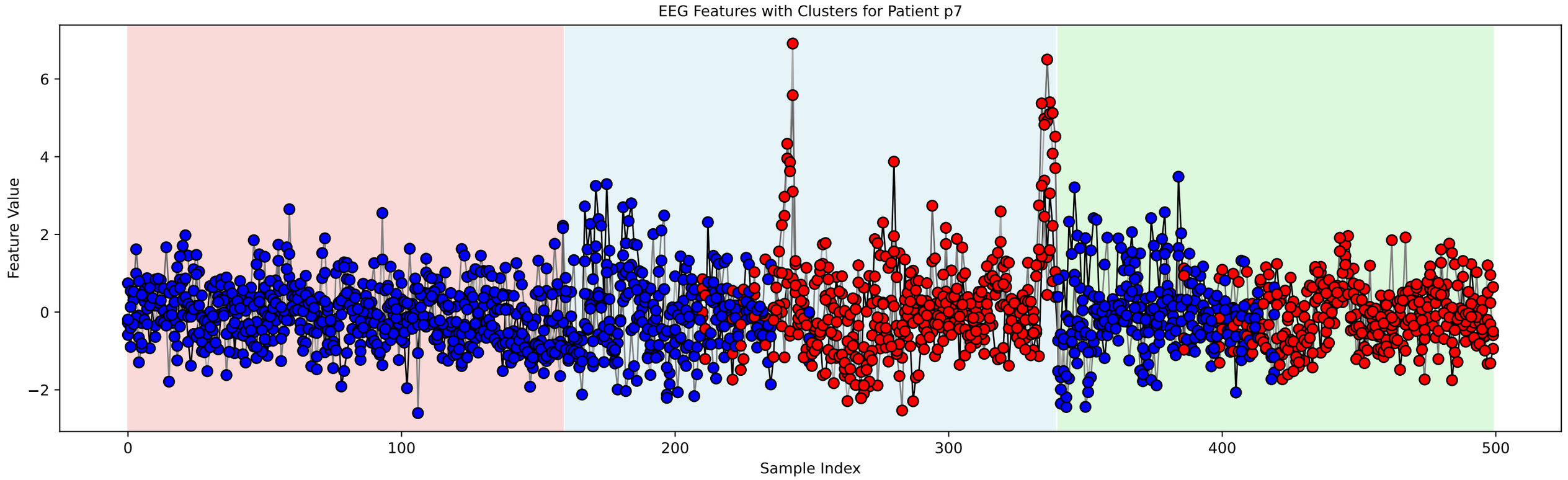

Feature Contribution for Patient p78 (PCA Loadings)
Contribution
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

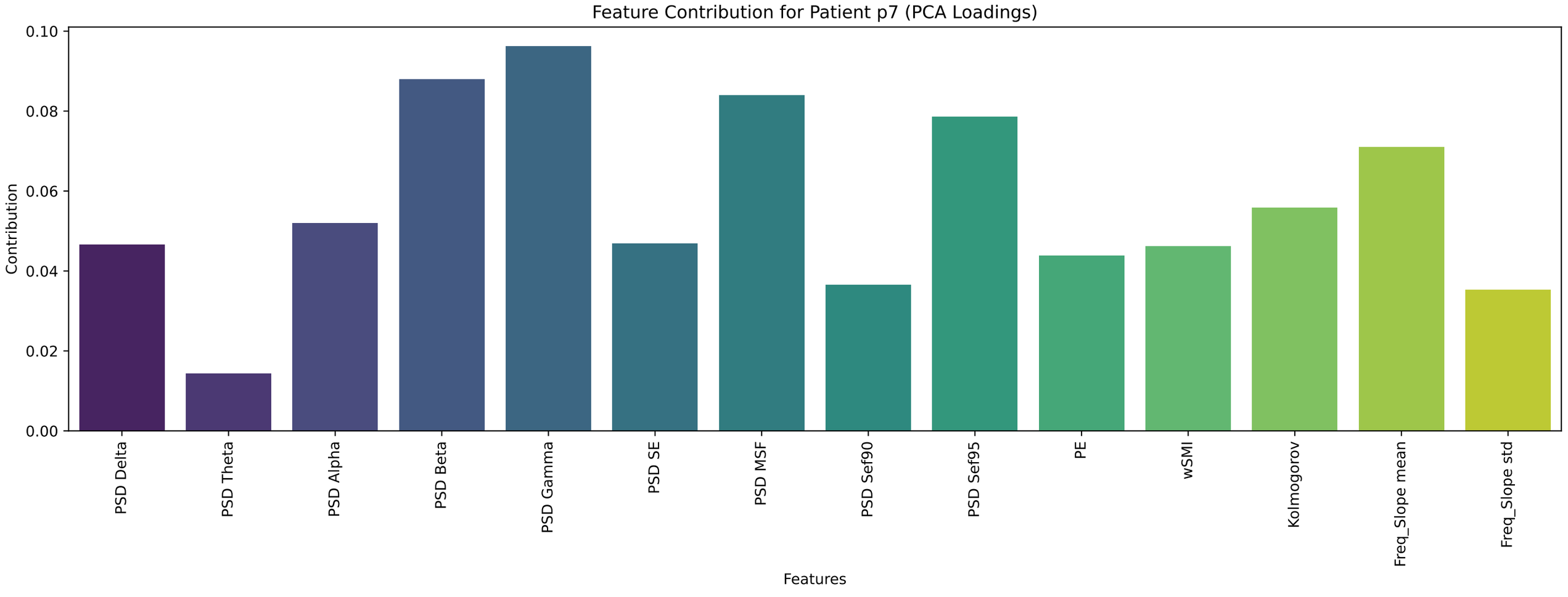

Clusters for Patient p79
25
20
15
10
5
0
−5
−500
−250
0
250
500
750
1000
1250

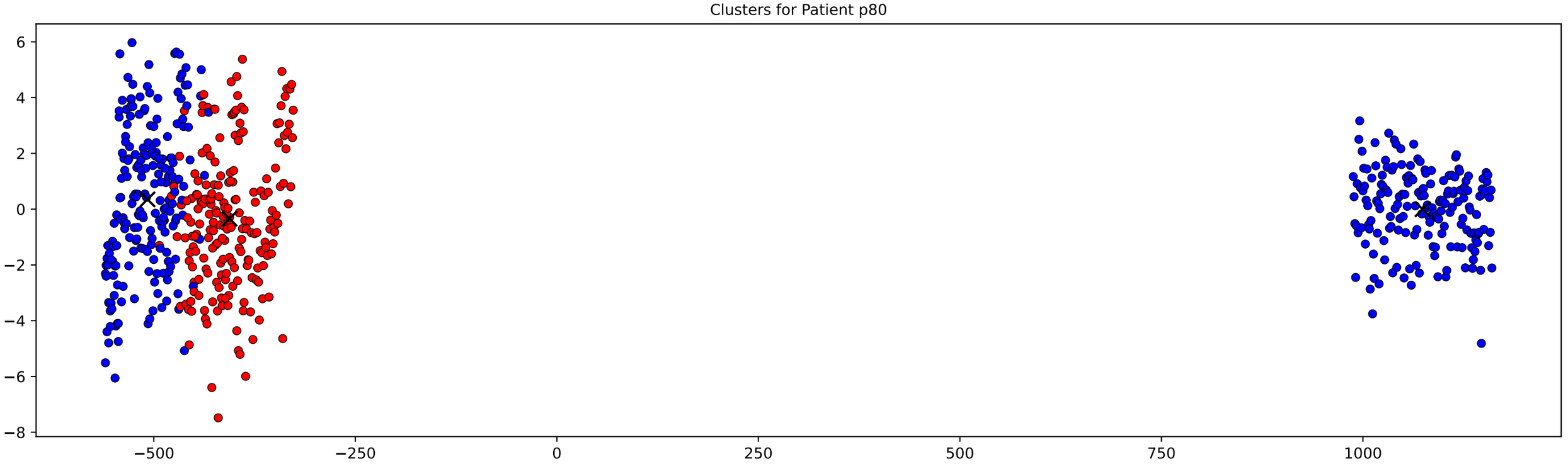

EEG Features with Clusters for Patient p79
Feature Value
10
8
6
4
2
0
−2
−4
0
100
200
300
400
500
600
Sample Index

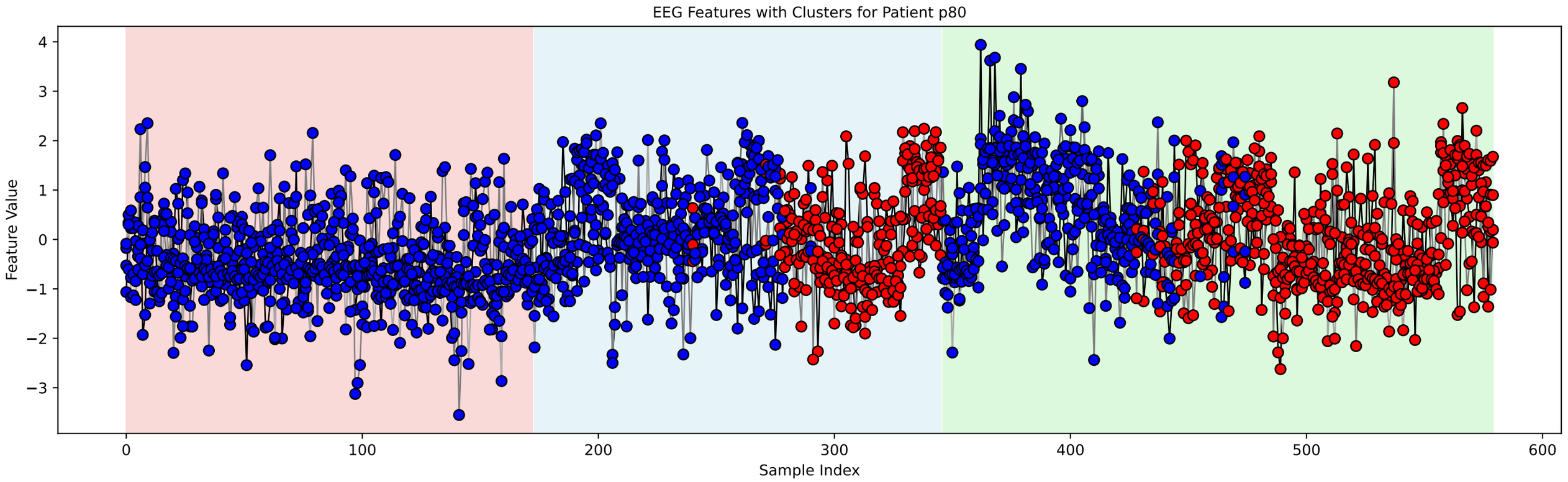

Feature Contribution for Patient p79 (PCA Loadings)
Contribution
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

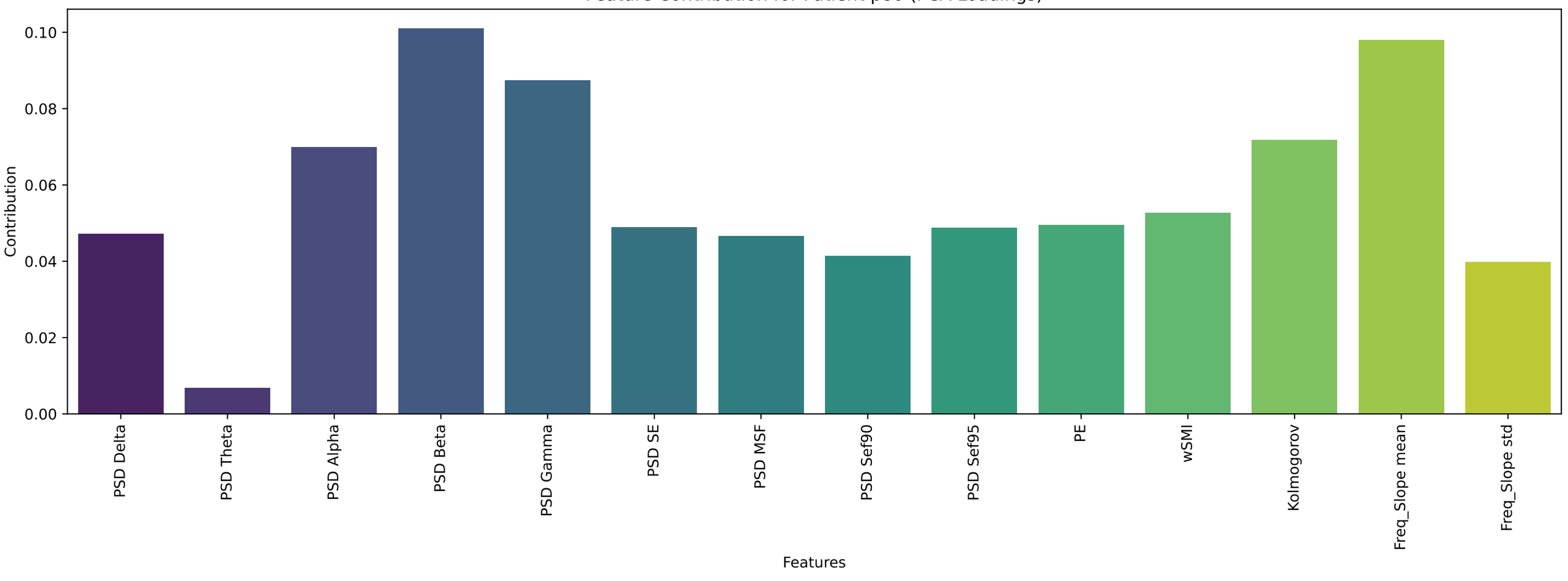

Clusters for Patient p7
10
8
6
4
2
0
−2
−4
−6
−500
−250
0
250
500
750
1000
1250

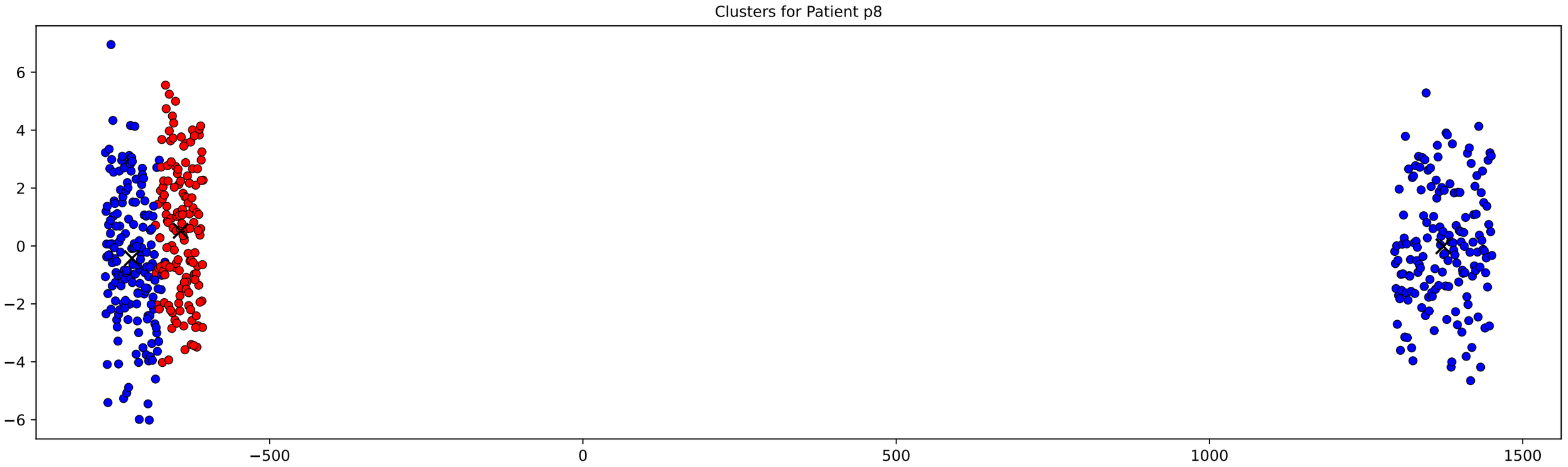

EEG Features with Clusters for Patient p7
Feature Value
6
4
2
0
−2
0
100
200
300
400
500
Sample Index

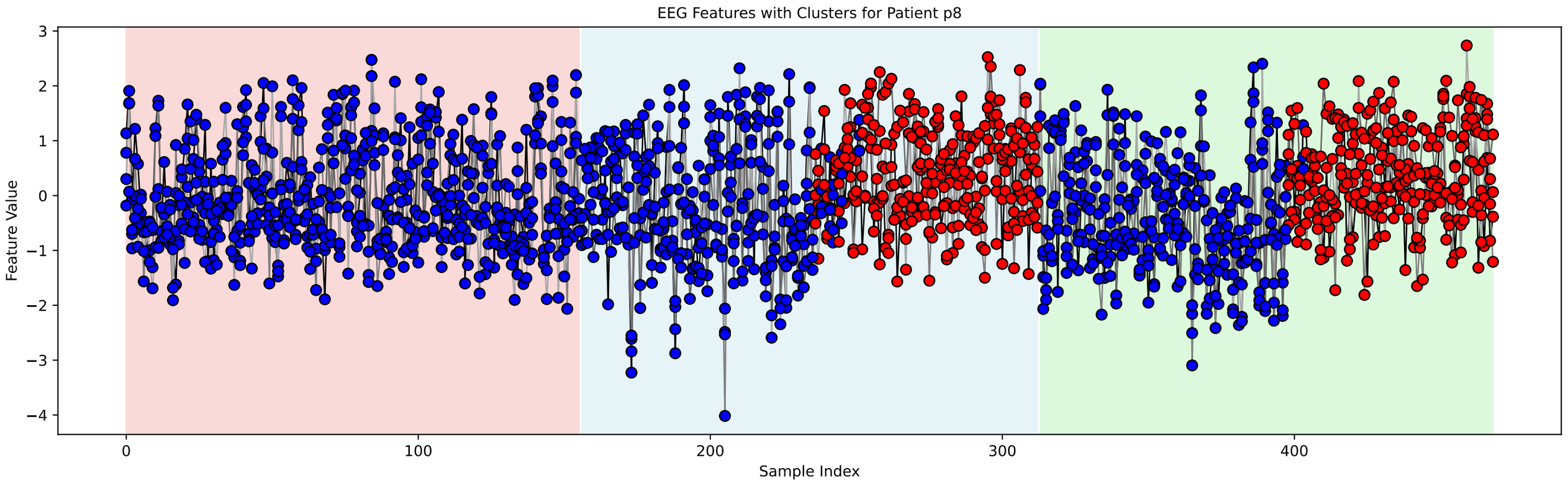

Feature Contribution for Patient p7 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

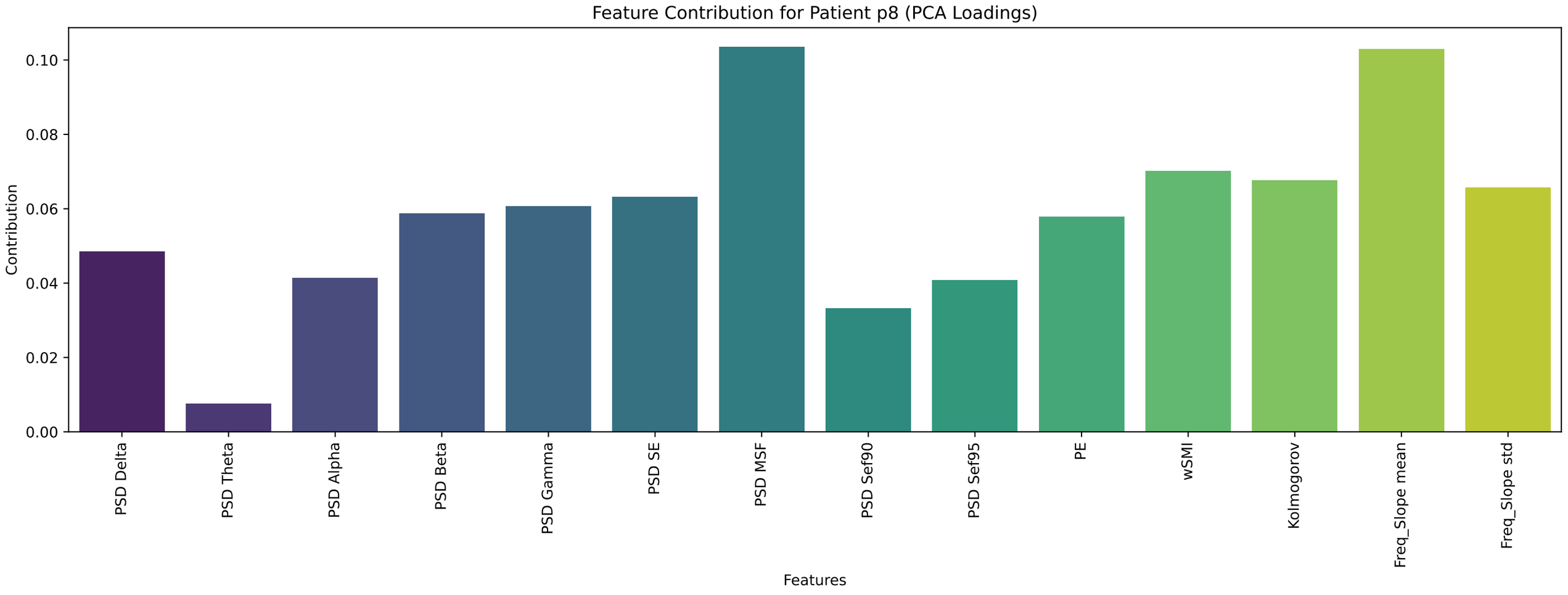

Clusters for Patient p80
6
4
2
0
−2
−4
−6
−8
−500
−250
0
250
500
750
1000


EEG Features with Clusters for Patient p80
Feature Value
4
3
2
1
0
−1
−2
−3
0
100
200
300
400
500
600
Sample Index


Feature Contribution for Patient p80 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features


Clusters for Patient p8
6
4
2
0
−2
−4
−6
−500
0
500
1000
1500


EEG Features with Clusters for Patient p8
Feature Value
3
2
1
0
−1
−2
−3
−4
0
100
200
300
400
Sample Index


Feature Contribution for Patient p8 (PCA Loadings)
Contribution
0.10
0.08
0.06
0.04
0.02
0.00
PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std
Features

Clusters for Patient p9

EEG Features with Clusters for Patient p9

Feature Value

Sample Index

Feature Contribution for Patient p9 (PCA Loadings)

Contribution

Features

PSD Delta
PSD Theta
PSD Alpha
PSD Beta
PSD Gamma
PSD SE
PSD MSF
PSD Sef90
PSD Sef95
PE
wSMI
Kolmogorov
Freq_Slope mean
Freq_Slope std