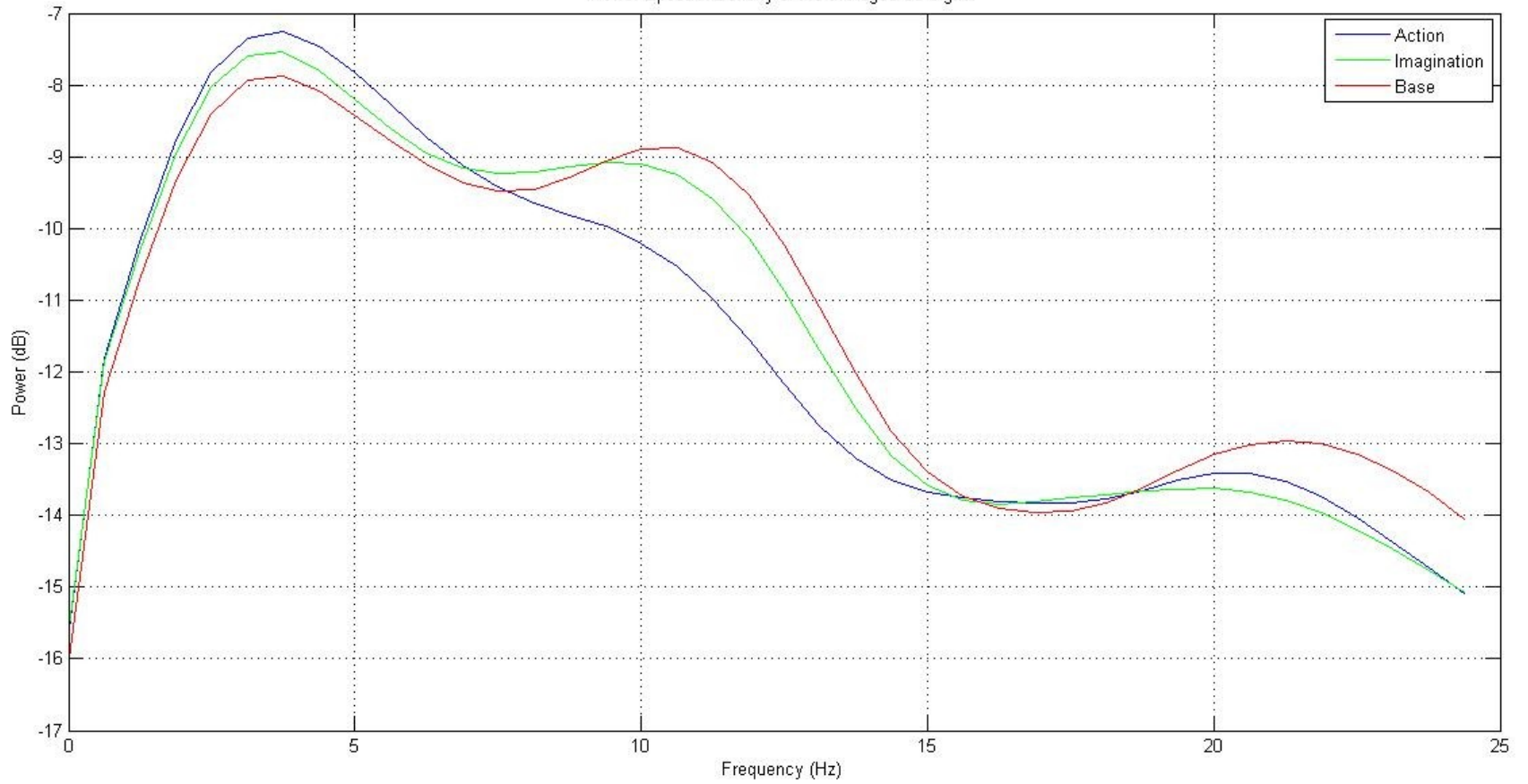


EEG Based Action Classification

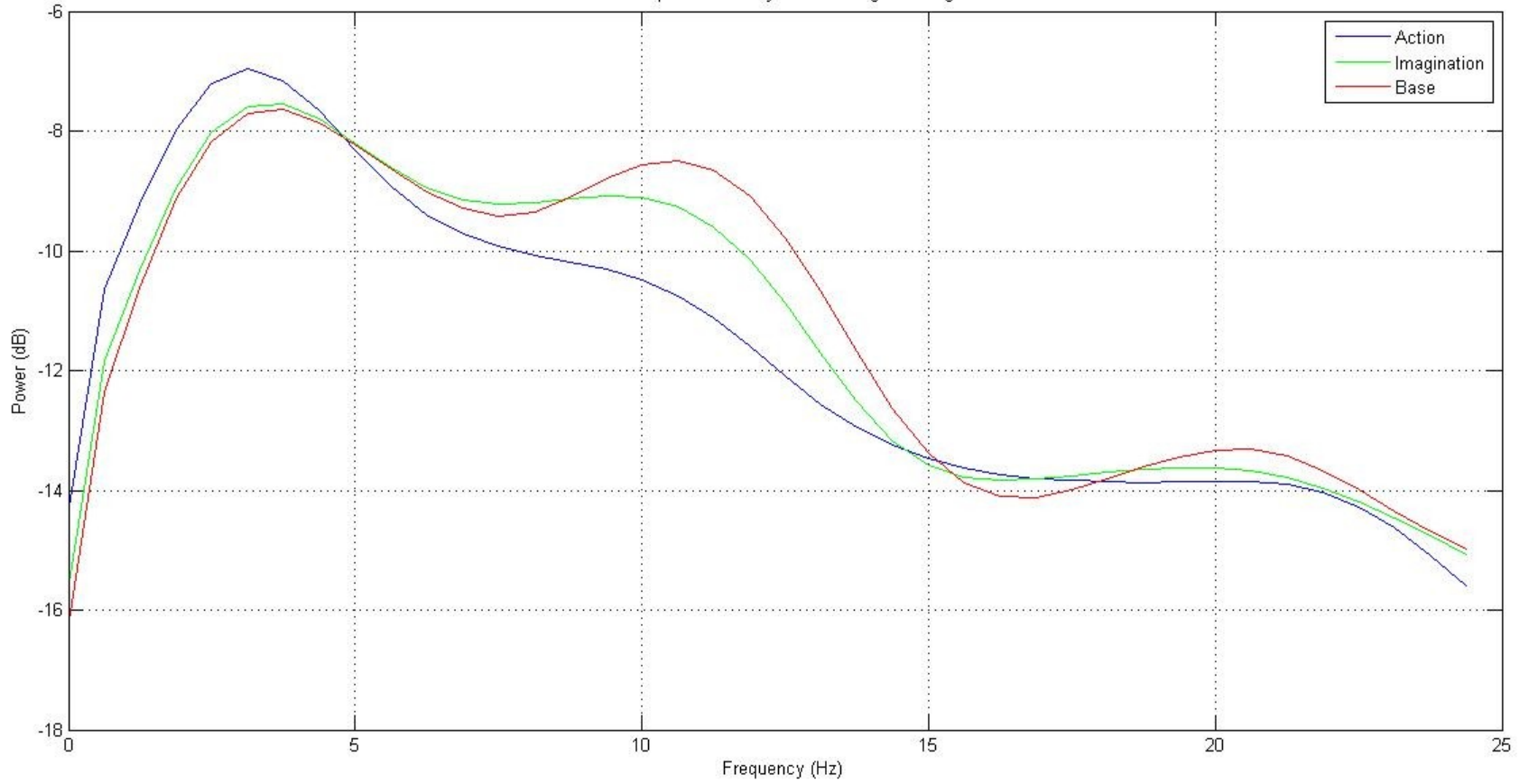
By Pratyush Sinha

Mentor: Prof. Amitabha Mukherjee

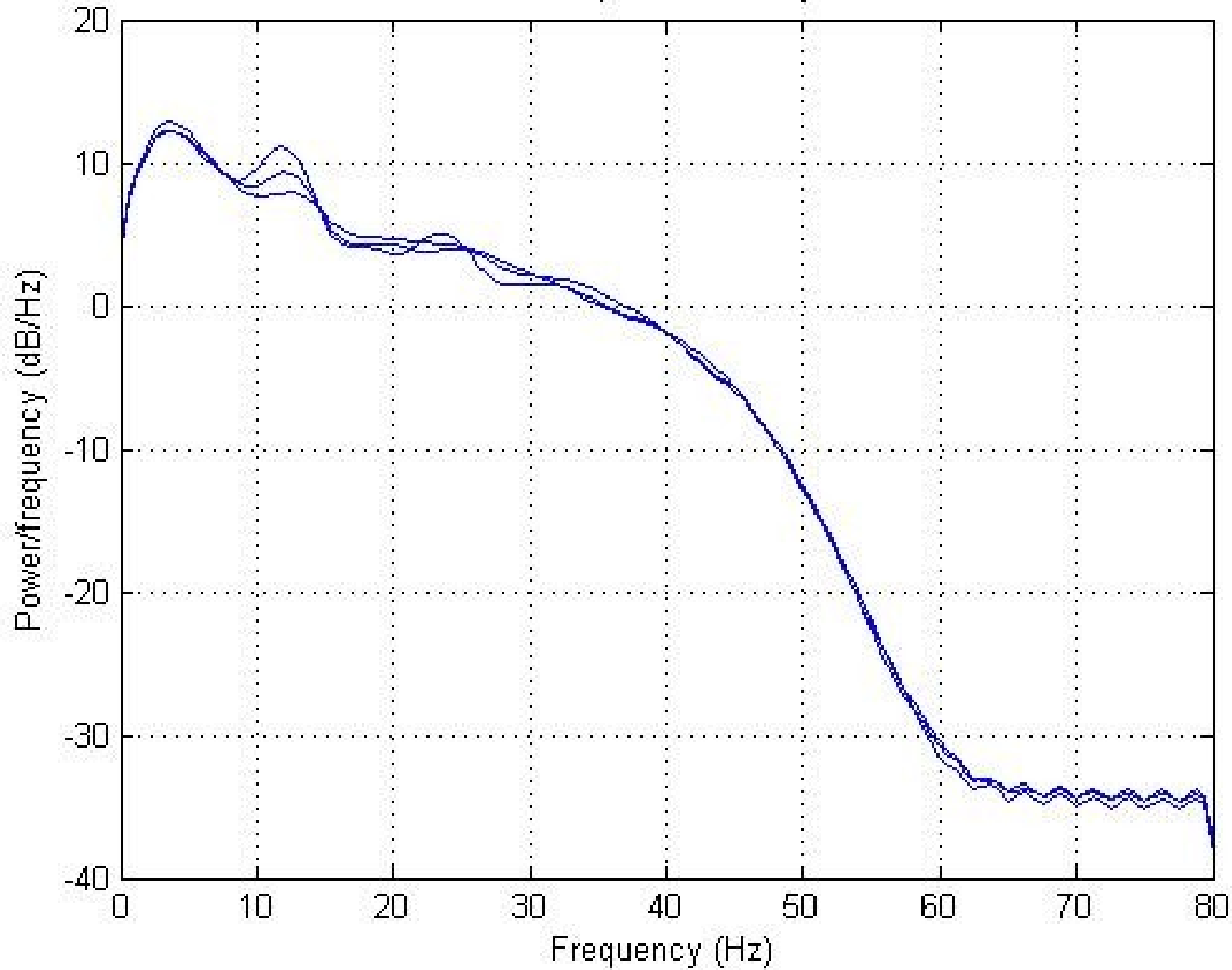
Power Spectral Density of the averaged C3 signal

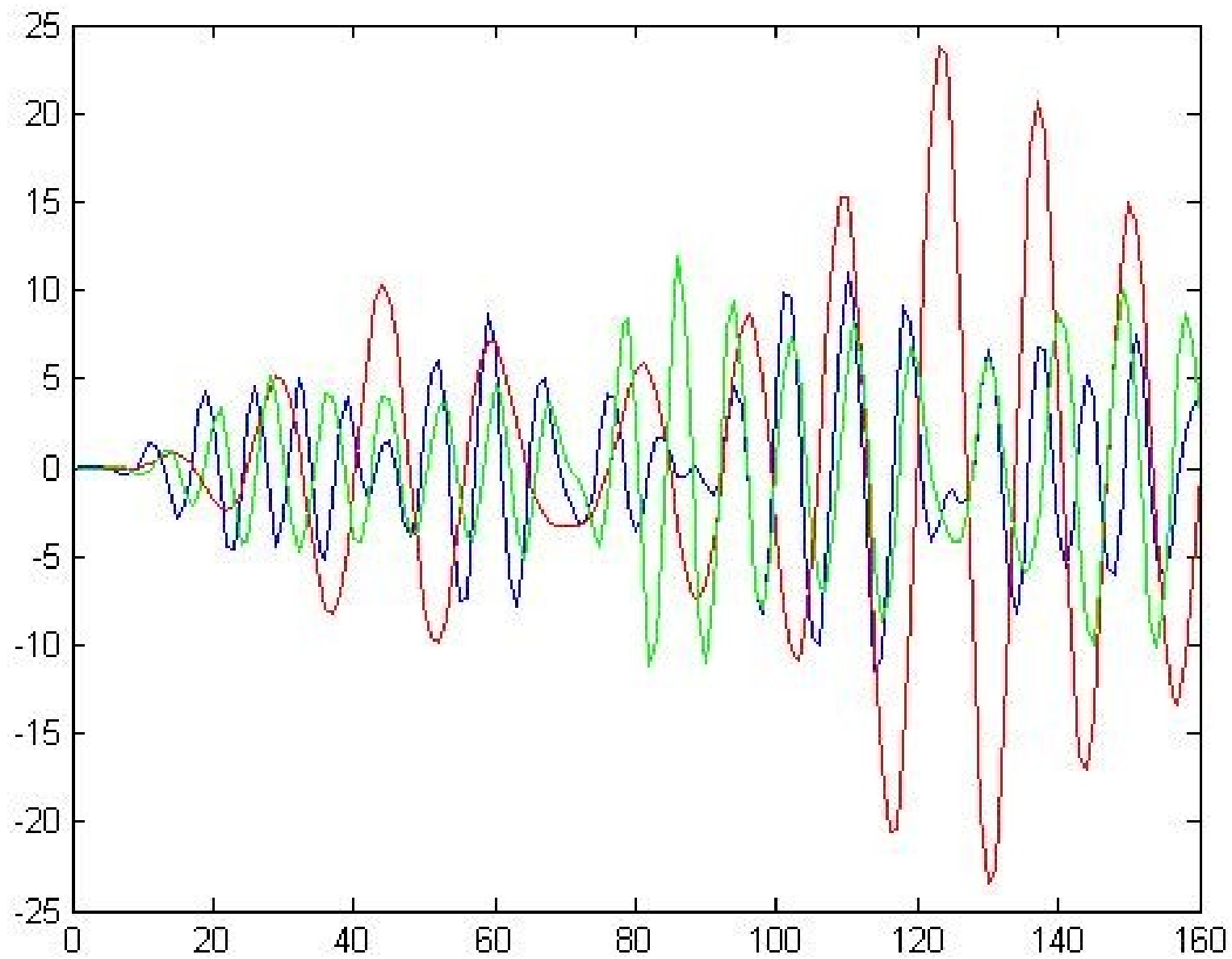


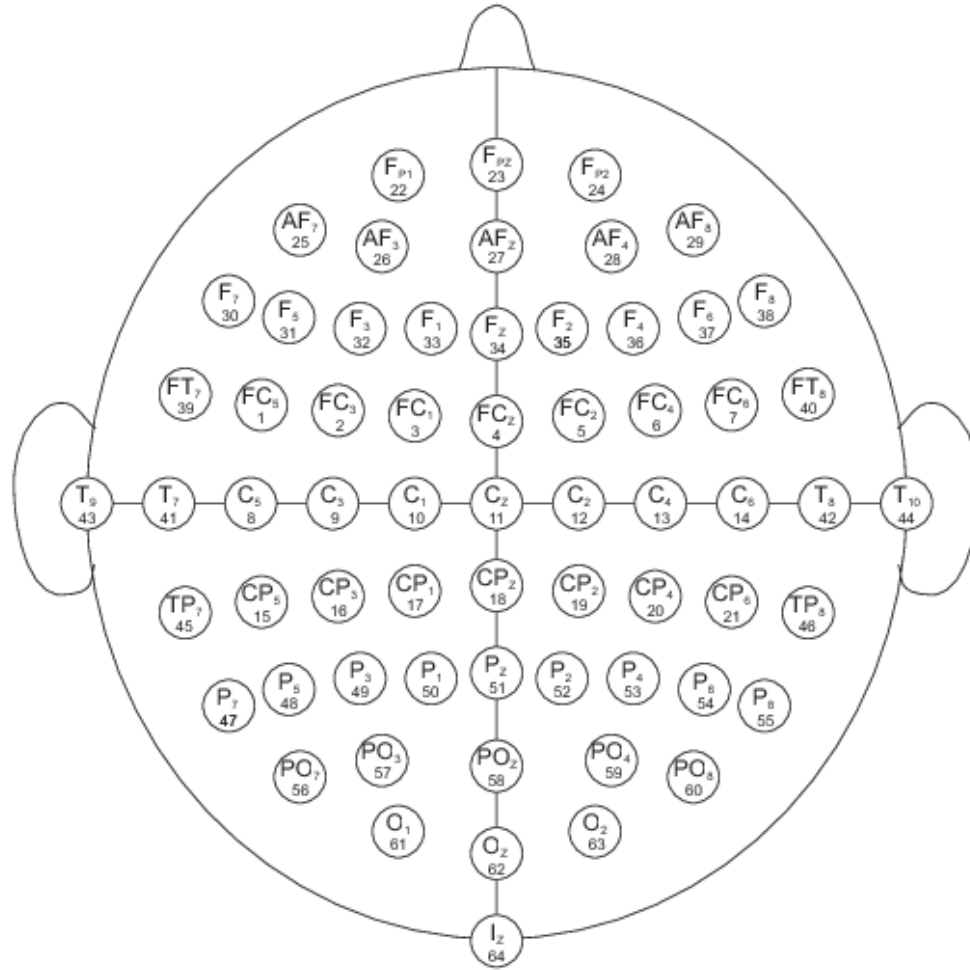
Power Spectral Density of the averaged C4 signal

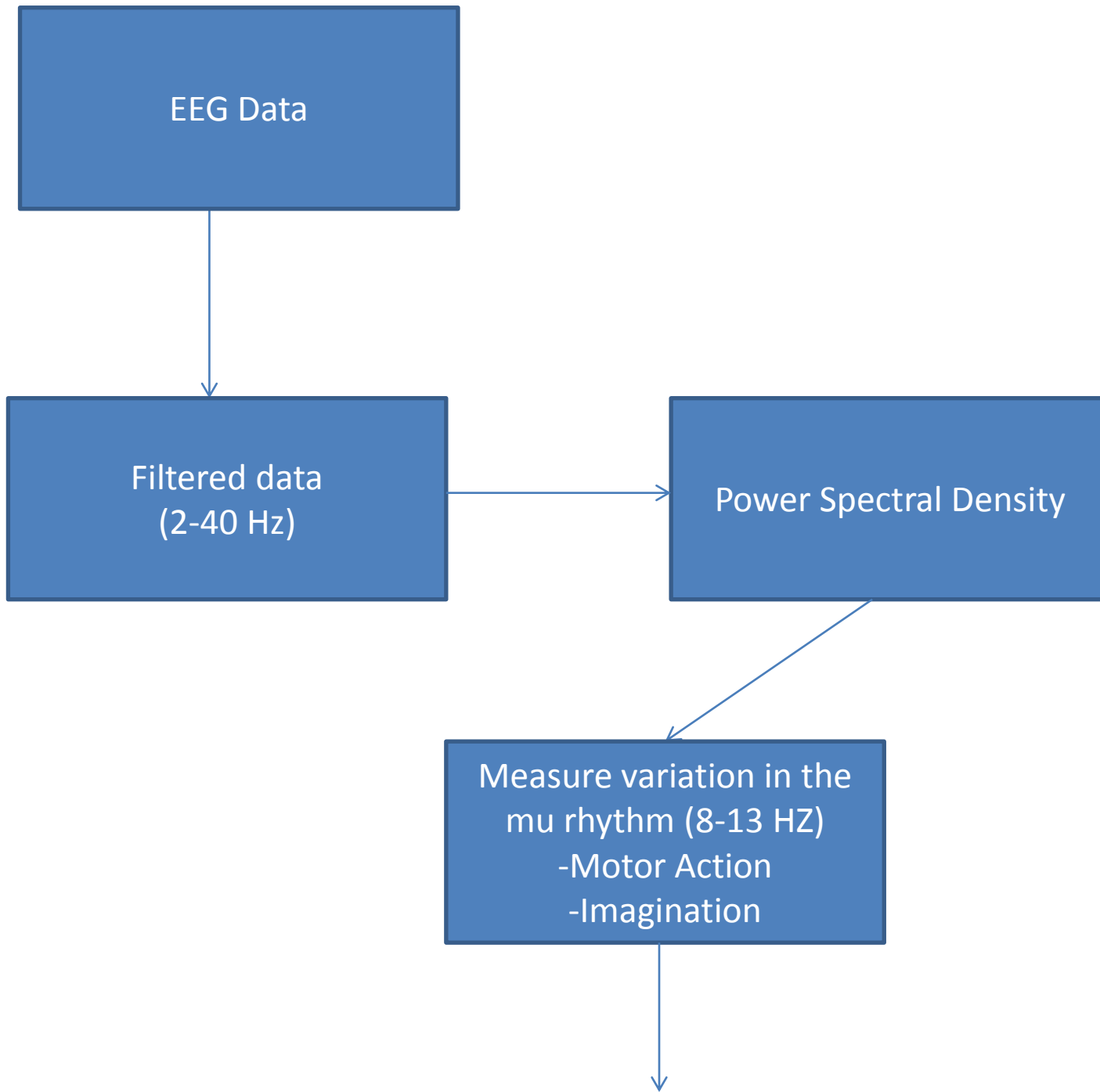


Welch Power Spectral Density Estimate









EEG Data

Filtered data
(2-40 Hz)

Power Spectral Density

Measure variation in the
mu rhythm (8-13 HZ)
-Motor Action
-Imagination

```
graph TD; A[ ] --> B[Support Vector Machine Classifier]; B --> C[Output]; C --> D["The accuracy obtained was 56.7% (Only marginally better than random guess)"]; style A fill:none,stroke:none;
```

Support Vector Machine
Classifier

Output

The accuracy obtained was
56.7%
(Only marginally better than
random guess)