Preprocessing

- Using Bandpass filtering to remove noise and keep heart rate content
 - Use IIR or FIR filters

Motion Artifact Removal

- Additional Filtering withing a specific frequency band
- Signal Quality Assesment (SQA)

Peak Detection

 Find the correct systolic peak or pulse onset

IBI Extraction

- Identify metrics like SDNN, RMSSD, SDRR
 - Essentially find the time difference between peaks

Outlier Rejection

 Remove physiologically implausible intervals

HRV Feature Extraction

- Identifying time, frequency and non-linear metrics