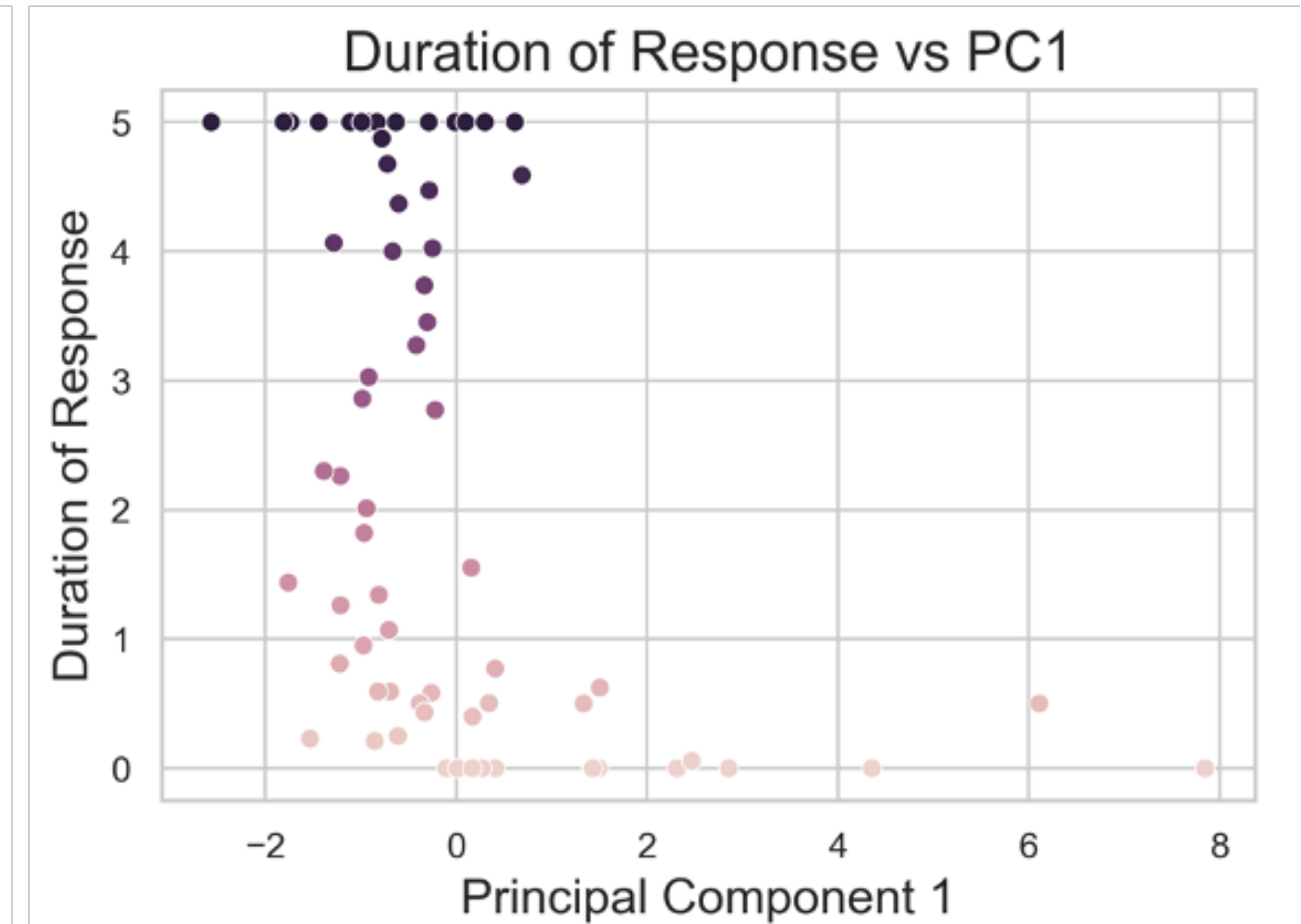
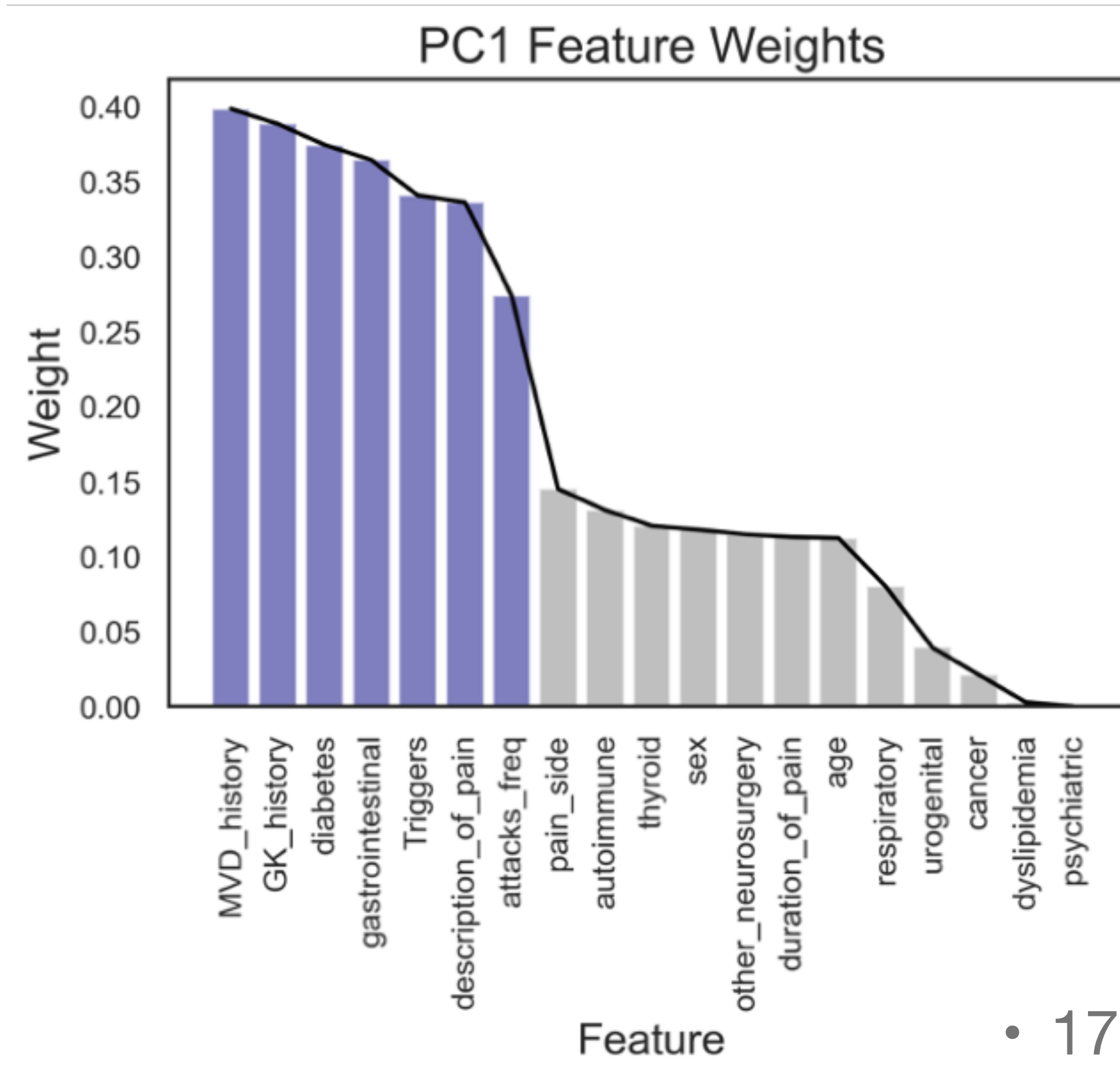


Results

Work in progress

Feature selection

| Feature | PC1 Weight |
|---------------------------|------------|
| MVD history | 0.398374 |
| GK history | 0.388326 |
| Diabetes | 0.374363 |
| Liver/GI disease | 0.364386 |
| Triggers | 0.340846 |
| Pain description | 0.336244 |
| Attack frequency | 0.274016 |
| Pain side (laterality) | -0.14505 |
| Autoimmune comorbidities | -0.13085 |
| Thyroid comorbidities | -0.12024 |
| Sex | -0.11771 |
| Other neurosurgery | -0.11459 |
| Pain duration | 0.112751 |
| Age | -0.11199 |
| Respiratory comorbidities | -0.08006 |
| Urogenital comorbidities | 0.039214 |
| Cancer | -0.021 |
| Dyslipidemia | 0.002584 |
| Psychiatric comorbidities | 1.62E-27 |



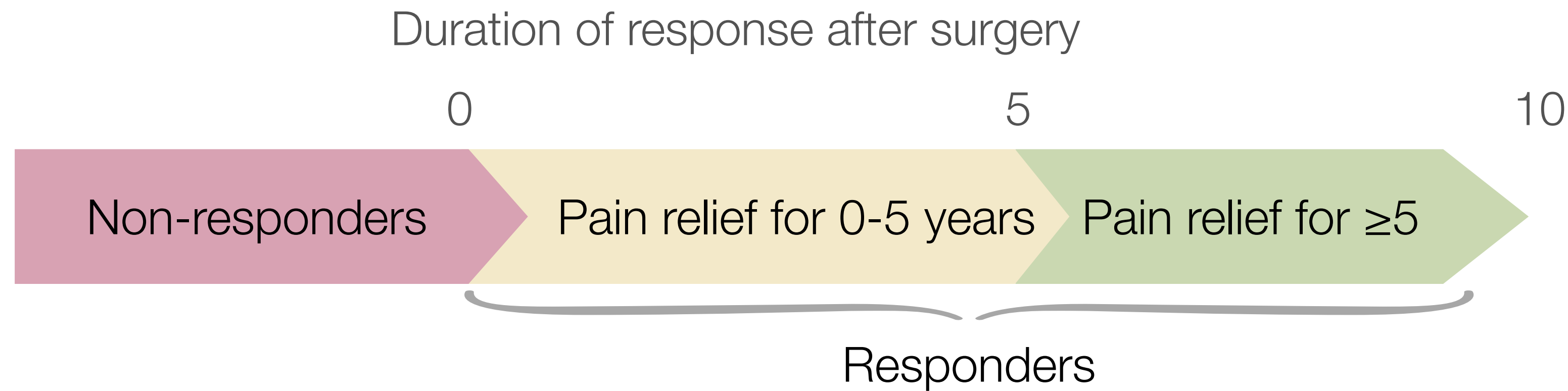
- 17 PCs to explain 95% of variance in data.
- PC1 vs Duration of response $r = -0.51$
[-0.67 – -0.31] ($p = 0.0002$)



Results

Work in progress

Supervised ML tasks



Classifier 1

- Responders vs. Non-responders
- Classification accuracy - 86%

Classifier 2

- Pain relief for < 5 Years vs. Pain relief for ≥ 5 years
- Classification accuracy - 77%