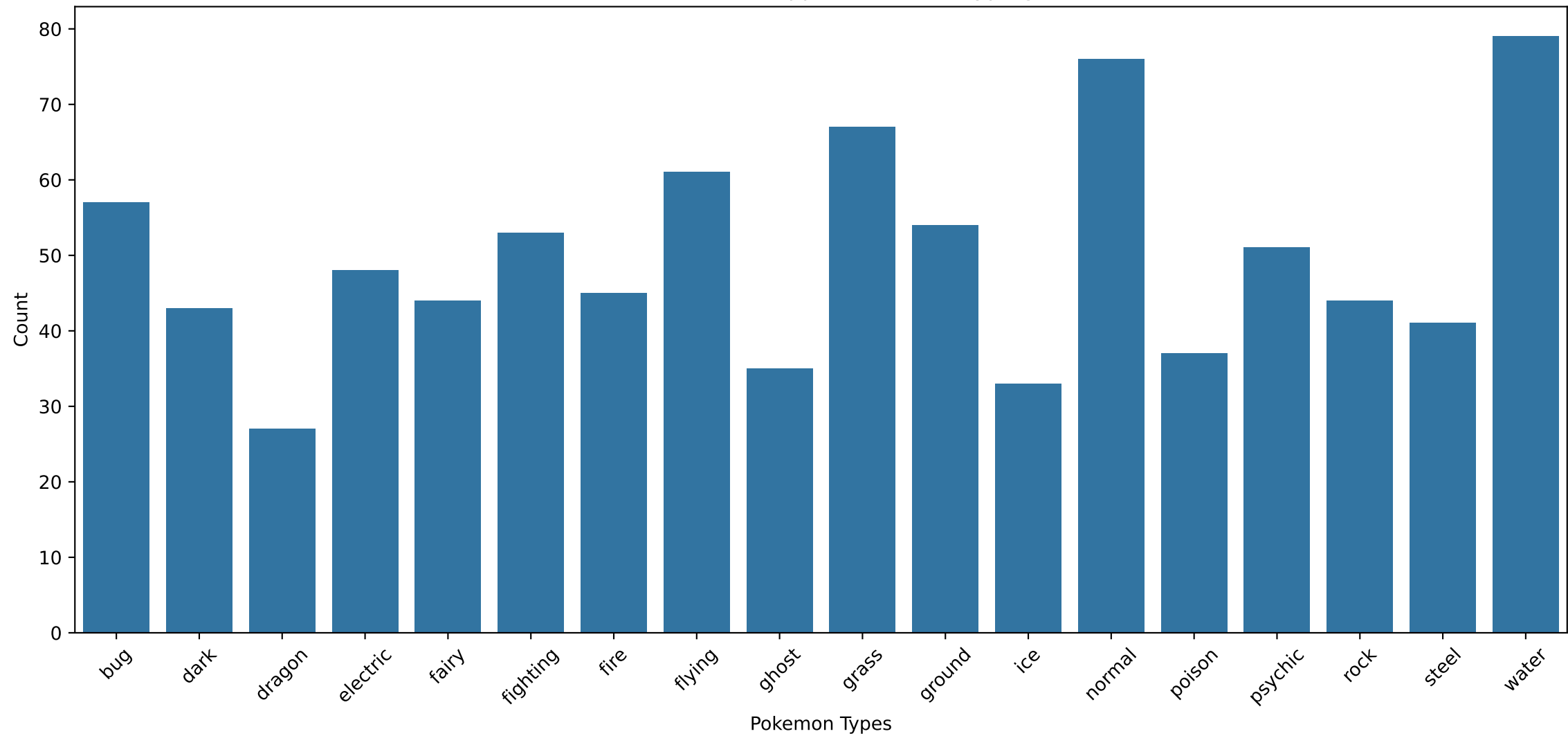


Evolutionary Algorithm - Population Size Experiment

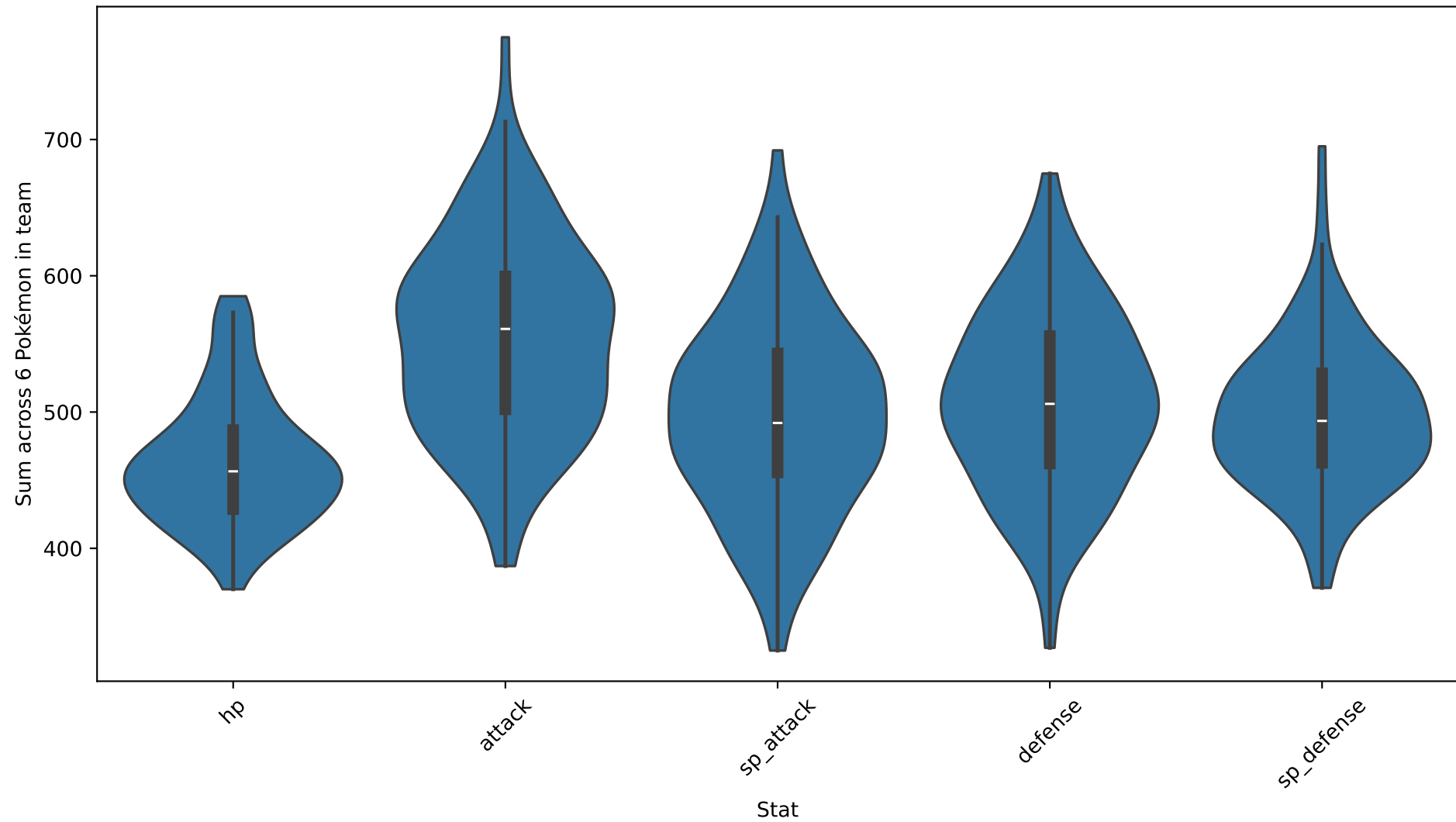
Setup:

- Population size: 20
- Generations: 20
- Mutation rate: 0.6
- Elite size: 1
- Tournament size: 3

Distribution of Opponent Teams Typing



Opponents: distribution of team stat sums



EA - Results of individual runs

| run | solver | elite_size | fitness | stats_sum | pokemons |
|-----|--------|------------|---------------------|-----------|--|
| 0 | EA | 1 | 0.39444444444444443 | 2461 | PokemonTeam(size=6, names=['Slaking', 'Salazzle', 'Garchomp', 'Tyranitar', 'Slurpuff', 'Avalugg']) |
| 1 | EA | 1 | 0.4950489510489511 | 2459 | PokemonTeam(size=6, names=['Tyranitar', 'Heracross', 'Goodra', 'Slowbro', 'Blissey', 'Beartic']) |
| 2 | EA | 1 | 0.4379156327543424 | 1876 | PokemonTeam(size=6, names=['Tangrowth', 'Incineroar', 'Blissey', 'Yanmega', 'Golem', 'Wobbuffet']) |
| 3 | EA | 1 | 0.41108860759493665 | 1900 | PokemonTeam(size=6, names=['Alomomola', 'Rhyperior', 'Blissey', 'Haxorus', 'Tropius', 'Luxray']) |
| 4 | EA | 1 | 0.5094054054054054 | 2120 | PokemonTeam(size=6, names=['Rhyperior', 'Abomasnow', 'Snorlax', 'Milotic', 'Arcanine', 'Wobbuffet']) |
| 5 | EA | 1 | 0.4668187744458932 | 2000 | PokemonTeam(size=6, names=['Tyrantrum', 'Abomasnow', 'Krookodile', 'Clefable', 'Drifblim', 'Blissey']) |

EA - Summary statistics

| solver | mean | median | std | min | max | count |
|--------|----------|----------|----------|----------|----------|-------|
| EA | 0.452454 | 0.452367 | 0.045938 | 0.394444 | 0.509405 | 6 |