Pokemon Team Builder Proposal

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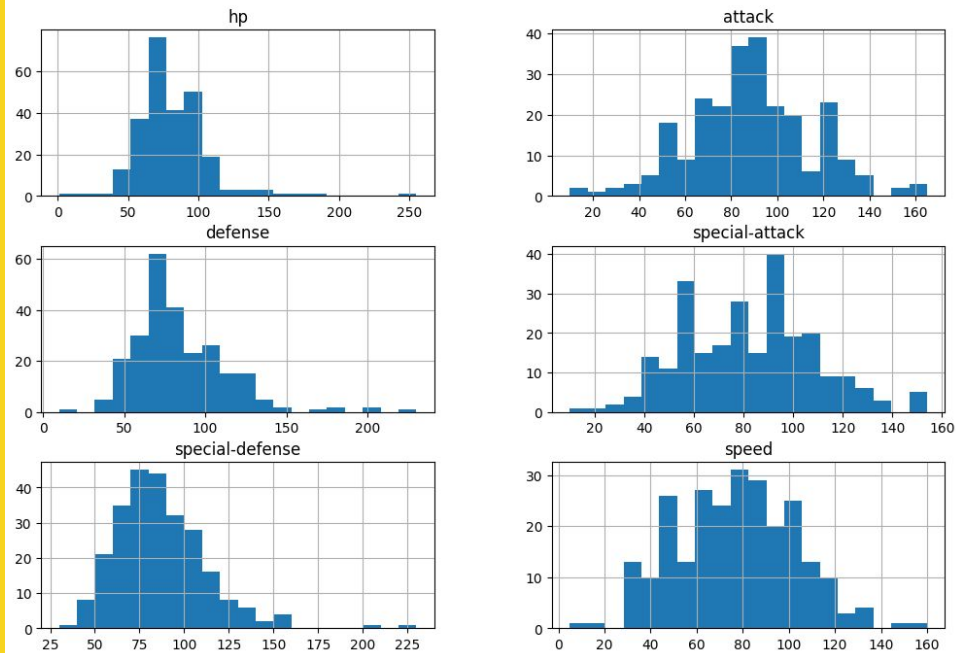
Current Progress

- Main purpose: Team builder with stat optimization
- API: https://pokeapi.co/
- Extracted data: hp, attack, defense, special-attack, special-defense, speed, name, types, weakness
- 253 pokemons
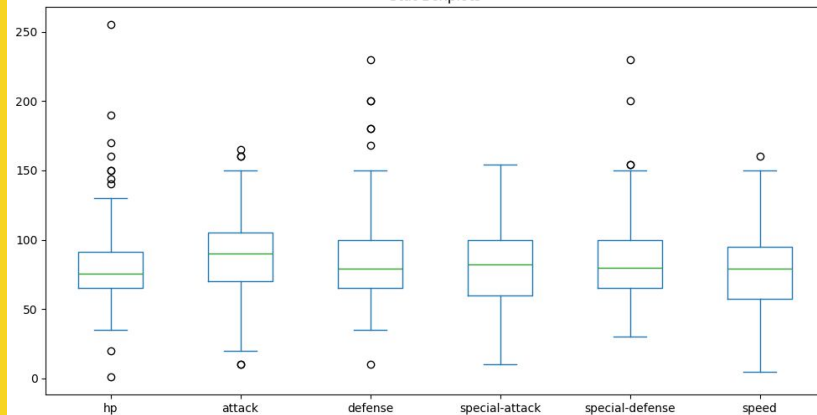
EDA

Stat Distributions

Stat Boxplots

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Top 10 pokemons
        name            types  total_stat
248   Arceus           {normal}        720
112    Ho-Oh      {flying, fire}       680
64    Mewtwo          {psychic}        680
111    Lugia   {psychic, flying}       680
241   Dialga     {steel, dragon}       680
242   Palkia     {water, dragon}       680
183 Rayquaza    {flying, dragon}       680
244 Regigigas          {normal}        670
182   Groudon          {ground}        670
181    Kyogre           {water}         670
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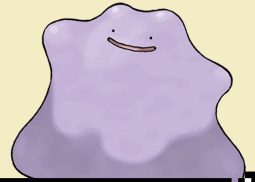
Goals and Plans

- **Greedy algorithm**: Start with Pokémon with the fewest weaknesses and add one-by-one avoiding overlaps.
- Add **more conditions** before start selecting
- Perhaps make the app interactive by allowing user to select the first few pokemons

ditto? ditto!