**CV Extractor**

**Approach to Work**

1. **Select best-fit candidates from CV documents** 
   * **We will provide a random list of 50 CVs**
   * **Create a reference table to hold inputs for the data**
     1. **For example, if a candidate has relevant experience like ‘SQL’**
     2. **That information will be held in a relational table called “inputs”**
        + **Field inside table will be called “search\_criteria”**
        + **CREATE TABLE dbo.inputs (id integer,**

**group VARCHAR(50),**

**search\_criteria VARCHAR(255));**

|  |  |  |
| --- | --- | --- |
| **id** | **Group** | **Search\_criteria** |
| 1 | Tools | ‘SQL’ |
| 2 | Education | ‘Degree’ |
| 3 | Experience | ‘XXXXXX’ |

* + **Based on the input extract using machine Learning (python)**
  + **Return only CVs that ‘best match’ based on the input**
  + **Return the:**
  + **Name, Gender and Age of Applicant**
* **Latest experience on the CV**
* **Oldest experience on the CV**
* **Key skillsets or Tools**

1. **Data Input**
   * **CVs will be provided**
2. **Data Profiling**

* Step N – Task was written
  + Python library
  + Reason for using this library
  + Actual/Expected result

1. **Data Cleansing**

* Step N – Task was written
  + Python library
  + Reason for using this library
  + Actual/Expected result

1. **Data Visualization**

* Step N – Task was written
  + Python library
  + Reason for using this library
  + Visualization
    - Reason for that visualization

1. **Data Algorithms**

* Step N – Task was written
  + Python library
  + Reason for using this library
  + Brief mathematical overview of the algorithm
    - Example
      * Decision Tree
        + Hierarchical structure
        + Root node

Leaf node

Traverse through tree to determine

Value > key

* **AI decision-making assumptions**
  + Does it solve the problem statement
  + What would be the recommended next steps to enrich the process
    - Use your AI knowledge and experience to provide input in to the process – to make real world decisions (AI)