# AlgorithmicTalent Tracker

## Objectives:

Developing an application to automate the candidate selection process (for developer, senior developer, and solution architect) at Doodle.

**Data Points for Candidate Evaluation:**

Finding data points for candidate evaluation, as Github, StackOverflow.

1. Converting row data into informative features that algorithm can use for decision making.
2. Developing a scoring system that assigns weights to each data point based on its importance in assessing a candidate's suitability.

**Selection Algorithm:**

Developing a non-deterministic algorithm that analyzes the chosen data point to identify the best talent for the role at Doodle.

**Machine Learning Models:**

Decision Trees, Random Forests, Gradient Boosting, Neural Networks

**Training Data:**

Using historical data for positive examples (hired) and negative examples (rejected) to train the model.

**Application:**

Candidate User Interface:

* Receive notifications.
* Access and submit solutions to three coding questions.

Doodle Hiring Manager User Interface:

* Evaluate candidates’ solutions.
* Notifying candidates about the result.

**Key Considerations:**

* Solution must have expiry date/time (time-limited interface).
* Ensuring privacy regulations.
* Code must be written in Python and hosted on Github.
* Writing documentation for the solution.

**Q&A:**

Should the data points be dynamic or static?

**Focus:**

* Algorithm.
* Algorithm + key considerations.
* Algorithm + key considerations + user interface.
* Algorithm Selection restricted or allow to choose.

**Presentation day:**

* Chosen algorithm implementation.
* Key considerations implementation.