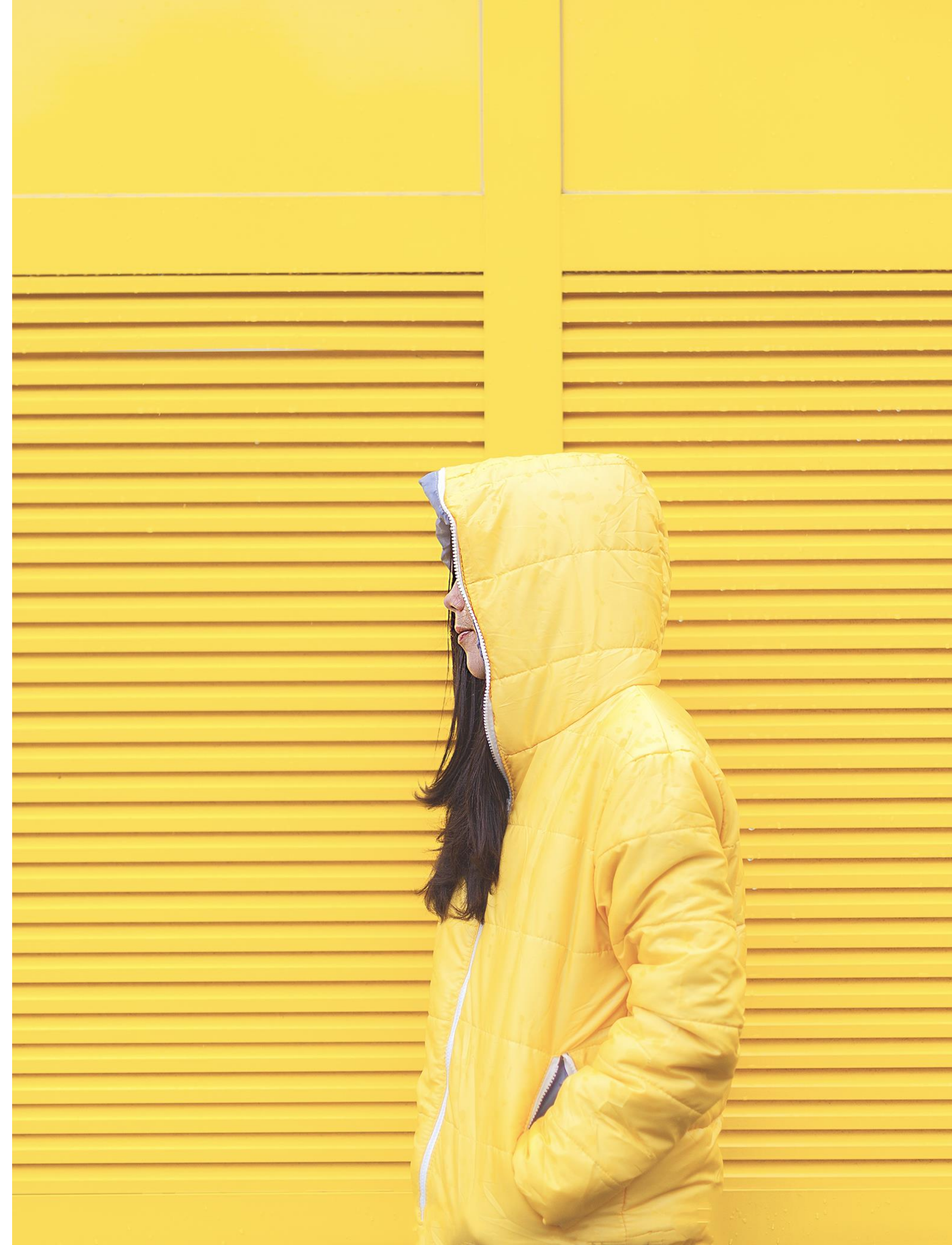


EDUCATION SYSTEM IN INDIA!

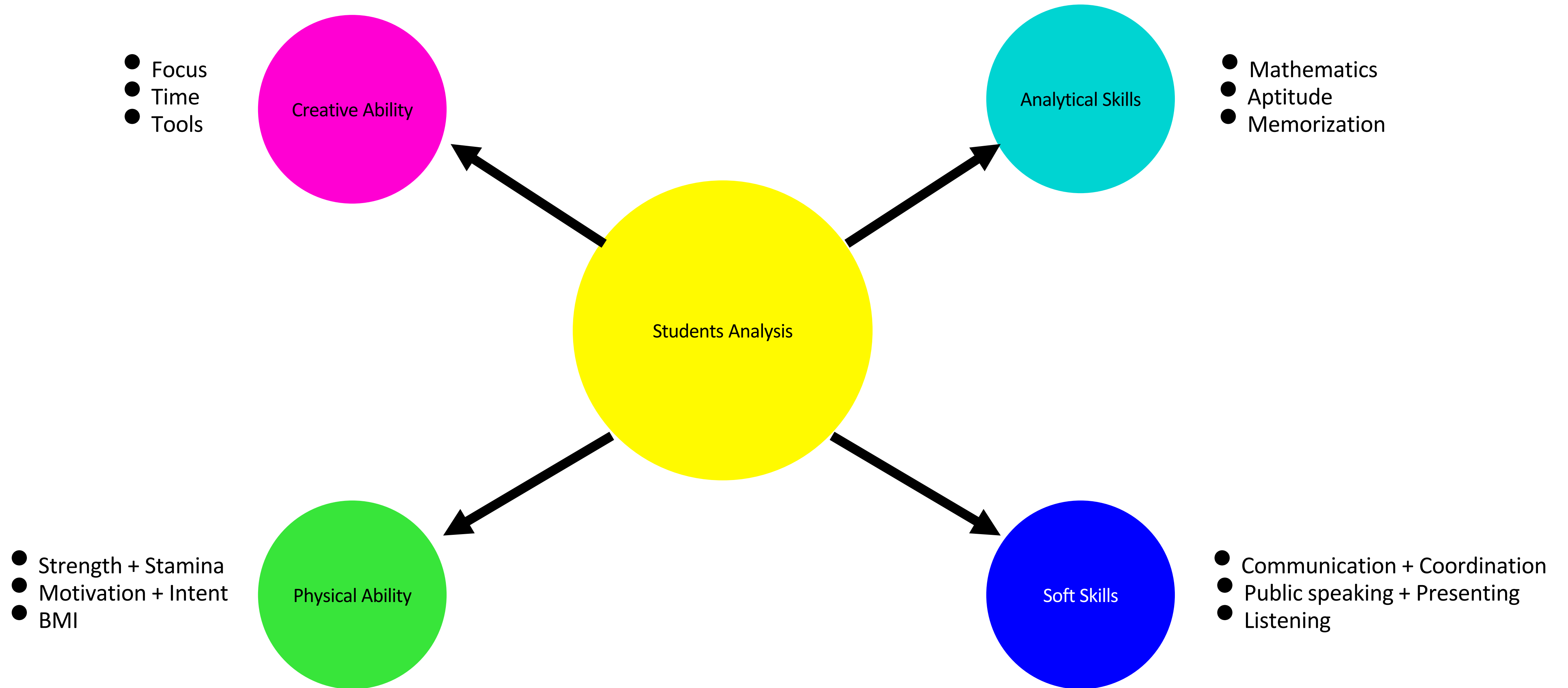
ENABLING OVERALL GROWTH OF STUDENTS FROM AN EARLY AGE.

ELIMINATING CONSERVATIVE GROUPISM

FOCUSING ON OVERALL GROWTH RATHER THAN SINGLE DOMAIN
FOCUS!



Evaluation Metrics/ Student Attributes



MODEL DESIGN

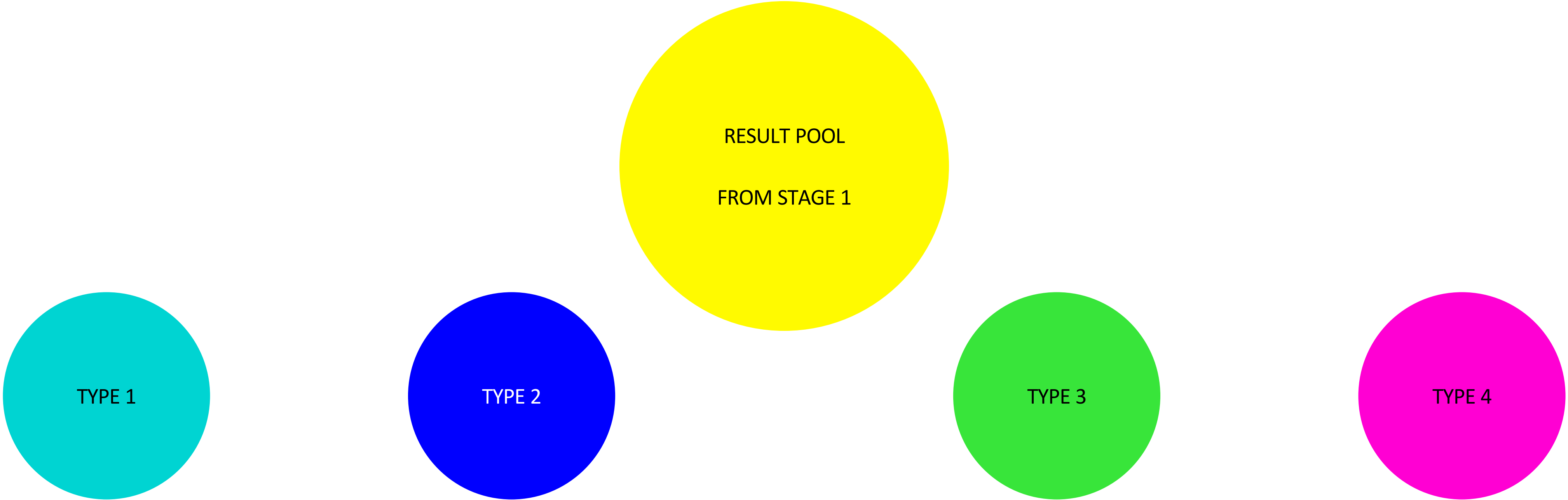
STAGE 1: EVALUATION

EVALUATION METRIC	RESULT
WRITTEN EXAM	ANALYTICAL SKILLS
COUNSELLING	SOFT SKILLS AND INTERACTION
PHYSICAL TEST	PHYSICAL HEALTH
CREATIVITY TEST	

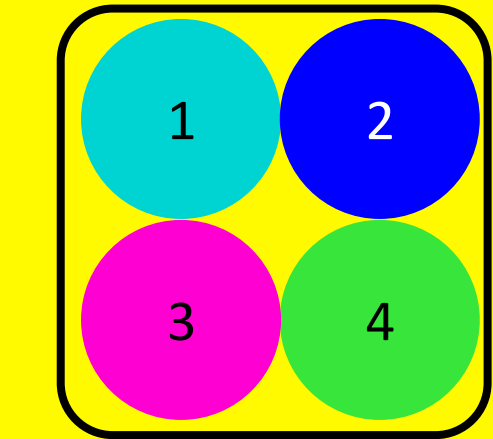
STAGE 1: DELIVERABLE

VISUALIZATION AND ***ANALYTICS*** OF A CHILD’S ABILITY!

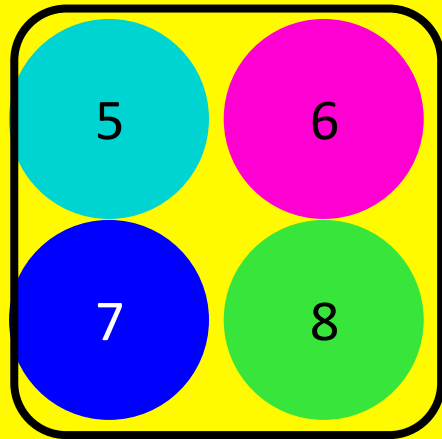
STAGE 2: STATISTICAL MATCHING



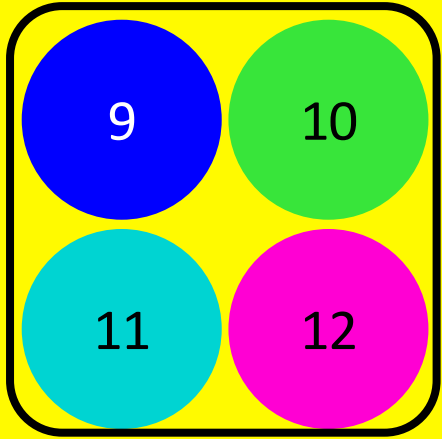
EACH BATCH



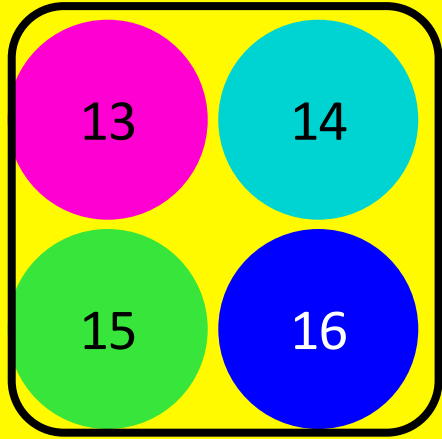
ACTIVITY GROUP 1



ACTIVITY GROUP 2



ACTIVITY GROUP 3



ACTIVITY GROUP 4

ROLE SPECIFICATION

- SUSHMITHA: PYTHON FUNCTION FOR DECIDING THE TYPE OF STUDENT
- ASHISH: STATISTICAL ANALYSIS FOR MATCHING
- ABHISHEK: CREATING AND MAINTAINING THE DATABASE
- SNEHITH: DATA VISUALISATION
- YASHWANTH: BUSINESS MODEL AND SCHEMA BUILD

```
In [9]: # 02-05-2022
# group project
# team D - SAASY

#team mates

# Sushmita Dogga
# Ashish Das
# Abhishek Koundle
# Nukala Snehith
# Chamarthi Yashwanth

# Title: Education System in INDIA
# about - Analysing Each student individually on parameters like Analytical s
# And matching the students with different skilled children in a team for eac
# interest from a very early point and can be multi skilled
```

```
import matplotlib.pyplot as plt
import numpy as np
import pandas as pd
```

```
In [2]: df = pd.read_csv(r"C:\Users\Yash\exam.csv") # importing the file that contain
```

```
In [3]: # grouping for each student

def stu_type_individual(n):
    n = n-1
    AS = (df['AS_mth'][n]+df['AS_apr'][n]+df['AS_may'][n])/3 # average of an
    SS = (df['SS_cc'][n]+df['SS_pp'][n]+df['SS_lis'][n])/3 # average of sc
    PA = (df['PA_ss'][n]+df['PA_mi'][n]+df['PA_bmi'][n])/3 # average of p
    CA = (df['CA_foc'][n]+df['CA_time'][n]+df['CA_tools'][n])/3 # average c
    avg = round((AS+SS+PA+CA)/4) # finding the average of all the categories
    AS_max = max([df['AS_mth'][n],df['AS_apr'][n],df['AS_may'][n]])
    SS_max = max([df['SS_cc'][n],df['SS_pp'][n],df['SS_lis'][n]])
    PA_max = max([df['PA_ss'][n],df['PA_mi'][n],df['PA_bmi'][n]])
    CA_max = max([df['CA_foc'][n],df['CA_time'][n],df['CA_tools'][n]])
    as_x = abs(avg - AS_max) # finding the parameter which is close or equal
    ss_x = abs(avg - SS_max)
    pa_x = abs(avg - PA_max)
    ca_x = abs(avg - CA_max)
    x = min([as_x,ss_x,pa_x,ca_x])
    if x == as_x:
        return 'Type A' # classsifying into types
    elif x == ss_x:
        return 'Type B'
    elif x == pa_x:
        return 'Type C'
    elif x == ca_x:
        return 'Type D'
```

```
In [4]: ▶ a = []
for i in df['ID']:
    a.append(stu_type_individual(i))
df['Type'] = a
df
```

Out[4]:

	ID	AS_mth	AS_apt	AS_mem	SS_cc	SS_pp	SS_lis	PA_ss	PA_mi	PA_bmi	CA_foc
0	1	88	90	89	64	58	81	86	70	85	67
1	2	91	86	88	87	90	93	35	84	43	87
2	3	94	88	91	81	84	86	48	46	54	77
3	4	91	93	92	62	55	82	82	81	83	94
4	5	83	83	83	55	53	71	90	90	91	95
5	6	75	79	77	61	52	45	85	89	88	95
6	7	80	80	80	88	84	90	69	58	67	65
7	8	84	70	76	78	73	85	87	75	86	83
8	9	57	54	55	82	78	77	81	59	72	33
9	10	70	62	66	62	61	79	86	58	80	69
10	11	99	99	99	91	96	95	41	78	39	85
11	12	69	78	74	93	96	96	46	90	49	81
12	13	79	77	78	89	93	93	41	94	41	82
13	14	79	79	79	80	80	84	59	79	60	82
14	15	81	83	82	70	73	78	83	73	78	78
15	16	73	71	72	71	66	71	88	93	89	95



In [21]: *# visualising exam student performance*

```
def vis_func(n):
    n = n-1
    as_vis = np.array([df['AS_mth'][n],df['AS_apr'][n],df['AS_mem'][n]])
    ss_vis = np.array([df['SS_cc'][n],df['SS_pp'][n],df['SS_lis'][n]])
    pa_vis = np.array([df['PA_ss'][n],df['PA_mi'][n],df['PA_bmi'][n]])
    ca_vis = np.array([df['CA_foc'][n],df['CA_time'][n],df['CA_tools'][n]])

    x_as = np.array(['Math','Aptitude','Memory'])
    x_ss = np.array(['Communication','Presenting','Listening'])
    x_pa = np.array(['Strength','Intent','BMI'])
    x_ca = np.array(['Focus','Time','Tools'])

    # plot 1
    plt.subplot(2,2,1)
    plt.bar(x_as,as_vis,width=0.4)
    plt.title('Analytical Skills')
    plt.xlabel('domain')
    plt.ylabel('score')

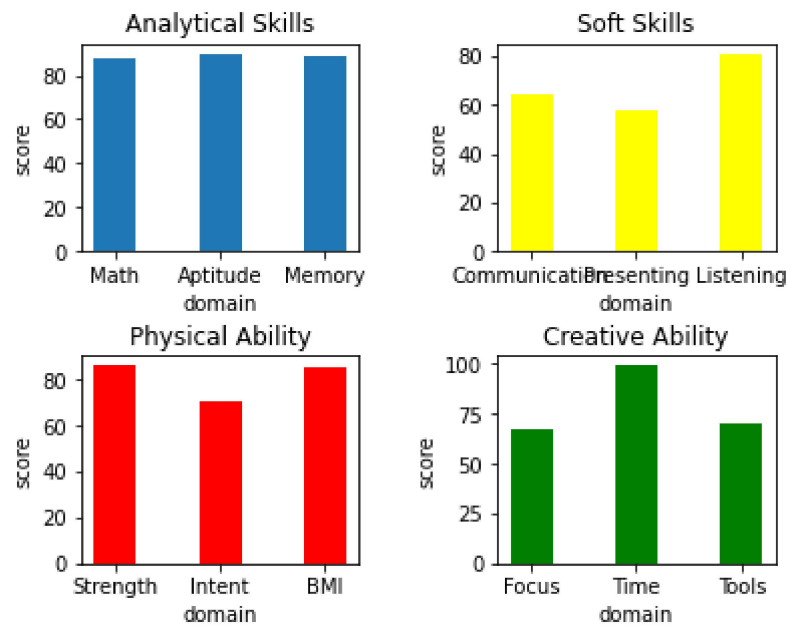
    # plot 2
    plt.subplot(2,2,2)
    plt.bar(x_ss,ss_vis,color='yellow',width=0.4)
    plt.title('Soft Skills')
    plt.xlabel('domain')
    plt.ylabel('score')

    # plot 3
    plt.subplot(2,2,3)
    plt.bar(x_pa,pa_vis,color='red',width=0.4)
    plt.title('Physical Ability')
    plt.xlabel('domain')
    plt.ylabel('score')

    # plot 4
    plt.subplot(2,2,4)
    plt.bar(x_ca,ca_vis,color='green',width=0.4)
    plt.title('Creative Ability')
    plt.xlabel('domain')
    plt.ylabel('score')
    plt.subplots_adjust(left=0.2,
                        bottom=0.3,
                        right=1.0,
                        top=1.2,
                        wspace=0.5,
                        hspace=0.5)

    plt.show()

vis_func(1) # takes student id as input
```



In []: ▶