Criteria for selection ;

1)Social cause

2)Deployable

1) Bus system route management (PS 27) , ==> Djikstra’s ? , Graph Algorithms? Ig

Ratings : Undefined from my side

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 27 | Government of NCT of Delhi | Automated Bus Scheduling and Route Management System for Delhi Transport Corporation | Software | SIH1612 | 0 | Smart Vehicles |

2) Electricity Demand Model (PS 39) ==> Model train on dataset of previous consumption which predicts future usage

Ratings : Moderate

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 39 | Government of NCT of Delhi | To develop an Artificial Intelligence (AI) based model for electricity demand projection including peak demand projection for Delhi Power system | Software | SIH1624 | 0 | Smart Automation |

3) Similar to our EcoFix Project , here the Carbon footprint Tracker (PS 56)

Rating : Easy , can expect a lot of competition

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| --- | --- | --- | --- | --- | --- | --- |
| 56 | Ministry of Coal | A web application specifically designed for Indian coal mines to quantify their carbon footprint and explore pathways to carbon neutrality. | Software | SIH1644 | 0 | Renewable / Sustainable Energy |

Another Idea from SIH :

3.5) Crop yield detection : Was suggested to us by Amol sir, and seeing it in SIH makes me want to reconsider it coz :

PROS : Extremely beneficial as India is majorly agriculture based economy.

Rating : Hard, as in my opinion it might be inclined to satellite image processing

4) Crop Based Satellite project ke jesa (HARD) ==> ISRO Had similar PS for satellite monitoring

Rating : Moderate

Some courses are provided by ISRO which at moment I can’t find online, but we can consider it.

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| --- | --- | --- | --- | --- | --- | --- |
| 67 | Ministry of Earth Sciences | Detecting oil spills at marine environment using Automatic Identification System (AIS) and satellite datasets | Software | SIH1655 | 0 | Smart Automation |

5) Done basic info

Ratings : Moderate

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 80 | Ministry of Electronics and Information Technology | Develop a functional solution that demonstrates the face liveness detection | Software | SIH1671 | 0 | Smart Automation |

6) Data Visualization? Check if marks are decreasing failing student? But I think it might be basic or a bit hard depending on what tech we use (DV ==> easy , AIML model use ==> bit unknown)

Rating : Easy to Medium

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| --- | --- | --- | --- | --- | --- | --- |
| 73 | Ministry of Education | Implement Software Solutions to Reduce Student Dropout Rates at Various Educational Stages | Software | SIH1661 | 0 | Smart Education |

7) Similar to Face liveness

Rating : Moderate

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 92 | National Technical Research Organisation (NTRO) | Development of AI/ML based solution for detection of face-swap based deep fake videos | Software | SIH1683 | 0 | Miscellaneous |

8)Judiciary Chatbot

Rating : Easy

Just using some API key won’t at all help

Very common

Just like any project it has potential for becoming advanced by some innovative addition

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 109 | Ministry of Law & Justice | Developing an AI based interactive Chatbot or virtual assistant for the Department of Justice’s Website. | Software | SIH1700 | 0 | Smart Automation |

My observation : The latter problem of SIH are very specific and are interesting, the starting problems very a lot more generic

SIH PS no. :

1) 1715

2) Oil Spill PS – SIH1655

**3) SIH –** 1733

**And many more..!**