**Environment, Experience, and Analytical Solution Ideation Report**

**Track Specific (Group-wise)**

**Group Members:**

|  |  |  |
| --- | --- | --- |
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**Title:** Fungal Infection Disease Analysis

**Scopes:**

According to superficial fungal infections-

* Which type of fungi attack most in which season?
* Which age of group affected most?
* What percentage of doctors recommend test?

**Objectives:**

In this analysis, we will predict which types of fungi attack most in which season and which age of group affected most.

**Goals:**

If we accomplished our objectives, then doctor will recognize the symptoms of a fungal disease early and may help prevent serious complications. And Patients may also alert in different season based on their symptoms.

**Analysis of operational data sources (LIS and HIS):**

**LIS:**

* Test information

**HIS:**

* Patients information
* Prescription information

**Multi-dimensional data modeling and logical structure (schema)**

Text

Description automatically generated

**Sample analytical queries and justifications from the Schema:**

1. **Which type of fungi attack most**

**select** *prc*. infection\_type, *prc*. date, count (*pi*. patient\_id)

**from** fungalinfectionbd\_schema. prescription\_table *prc*

**join** fungalinfectionbd\_schema. Patient\_information *pi*

**on** *pi*. patient\_id= *prc*. patient\_id

**group** **by** (*prc*. infection\_type, *prc*. date)

**order** **by** (*prc*. infection\_type)

**Implementation Plan**

ETL -> outlier detect -> algorithm (based on dataset)