**PYTHON**

**Core Python:**

**Data types:**

* int,bool,float,dictionary,tuple,set,strings etc..

**Operators:**

* Arithmetic,Assignment,Logical,Bitwise,Identity and comparision operators.

**Control flow:**

* if statement, For statements, The range() function, Break,switch and while loops.

**Exception handling:**

* We wrote code for filght booking using exceptions.

**Classes:**

**File operations:**

* I have learnt file input and output operations such as write,read,open and close.

**Git hub:**

* I have learnt repository creation,pushing, pulling and commiting the code from local repository to remote repository.
* I have also learnt cloning the code from remote repository to local repository ,created ssh key pair and different branches.

**Post man:**

* I have learnt testing APIs uing postman and fetching data from jason using get request.

**Django:**

* We have followed the django documentation and learnt virtual environment creation,sample project creation and app creation.
* We have took reference of polls app from the documentation and created apps such as quiz app and online school manangement app.

**Django restframework:**

* We have learnt the concepts of serialization,return,response,class based views and authentication by following the documentation.

**Streamlit:**

* We have learnt streamlit using documentation and also implemented in the analytics project to get the graphs and buttons.
* Actually streamlit made frontend less complex.

**Machine learning:**

* I have learnt machine learning from coursera and got familiar with concepts like supervised and unsupervised machine learning, Linear regression, cost funtion and optimization.

Apart from these core python,django,DRF and ML I have learnt some topics:

1. Symmetric and asymmetric key encryption
2. Oauth2
3. Checksum
4. MD5
5. File Authentication
6. File integrity
7. OSI Model

In addition to these I have learnt prompt engineering and attended a Google event and got an intution about some technologies like Bard,Palm2, Google labs and Generative AI.