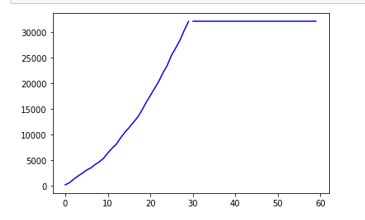
**Decision Tree Regression–**

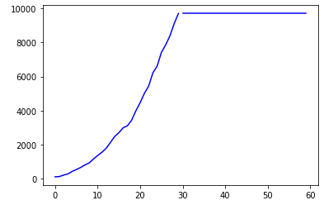
**Total India**

R2 Score - 0.9148

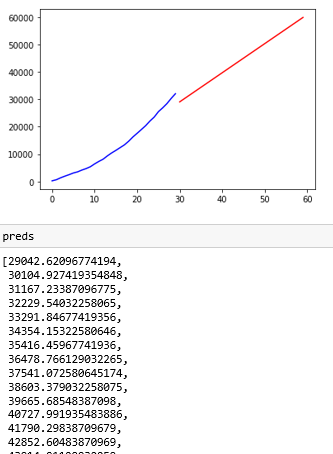
Prediction comes

Constant . (New Cases 0)

**Total Maharasthra**

R2 Score – 0.9627

Prediction comes constant

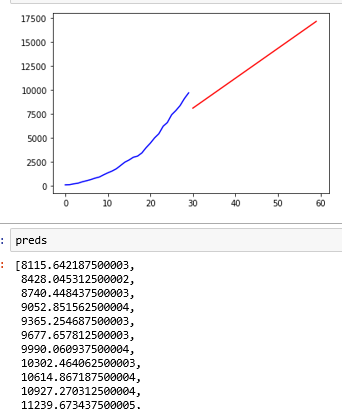
**Multiple Linear Regression**

**Total India**

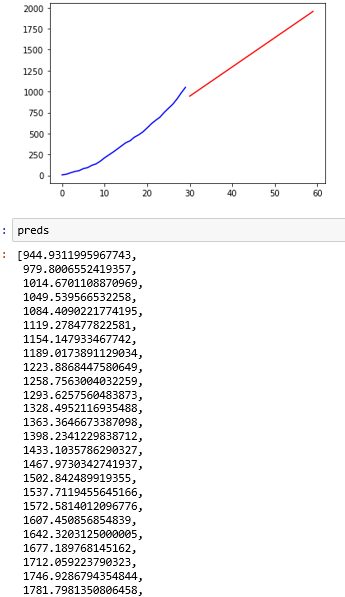
R2 score - 0.965483

(Cummulative)

**Total Maharashtra**

R2 Score – 0.9269

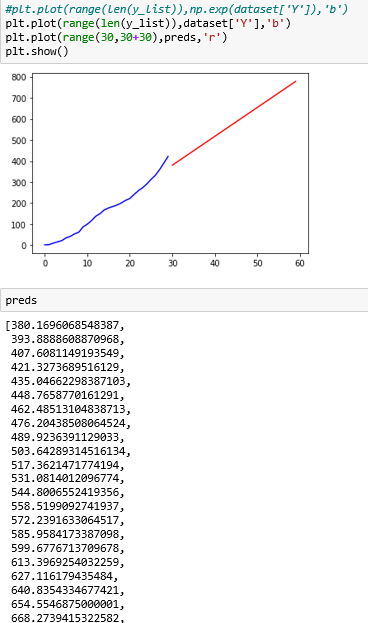
(Cummulative cases)



**Deaths India**

**R2 score – 0.9729**

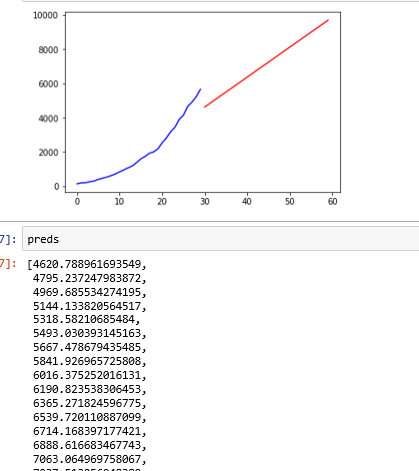
**(Cumulative)**

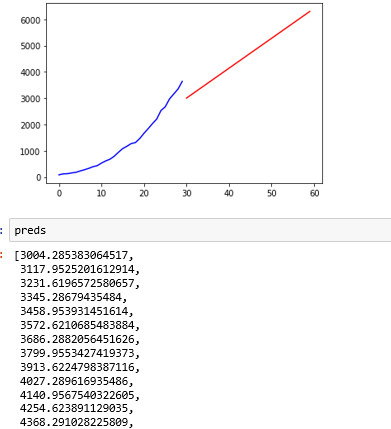
****

**Deaths Maharastra**

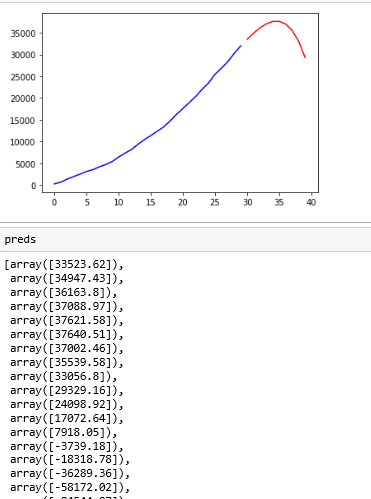
**R2 Score = 0.98**

**(Cumulative )**

**Gender Male**



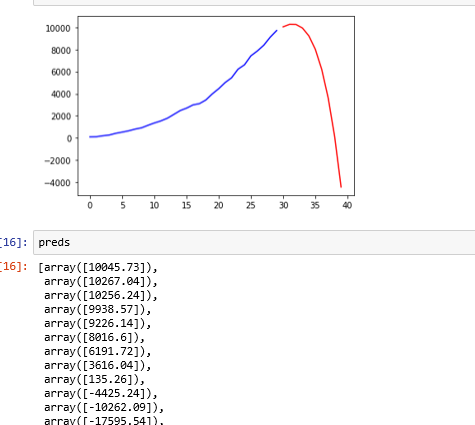
**Gender Female**

**Polynomial Regression**

**India(Cummulative)**

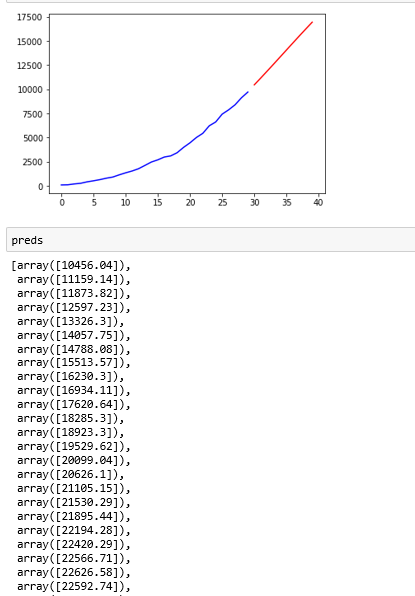
**(poly dim. 6)**

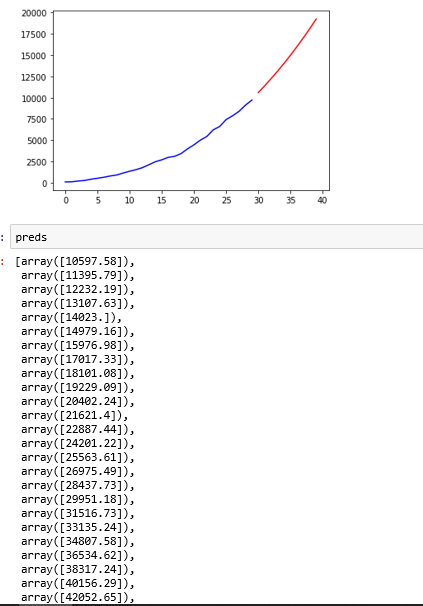
**R2 value – 0.99**

**Maharashtra(Cumulative)**

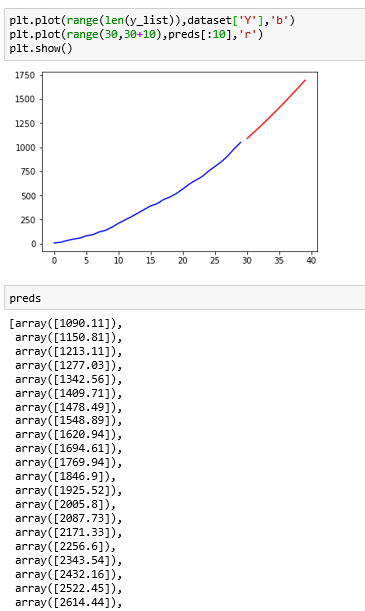
**R2 value=0..999**

**(poly dim 6)**

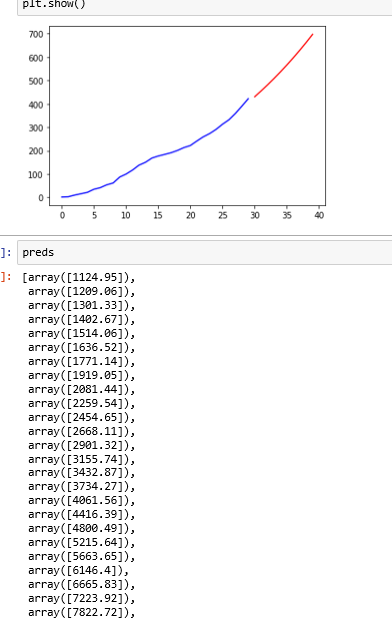
**Maharashtra (poly 4)**

****

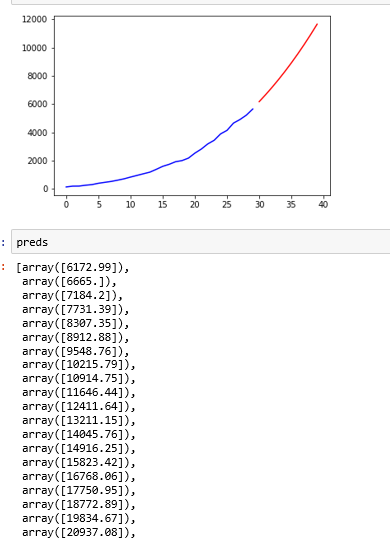
**(Poly 3)**

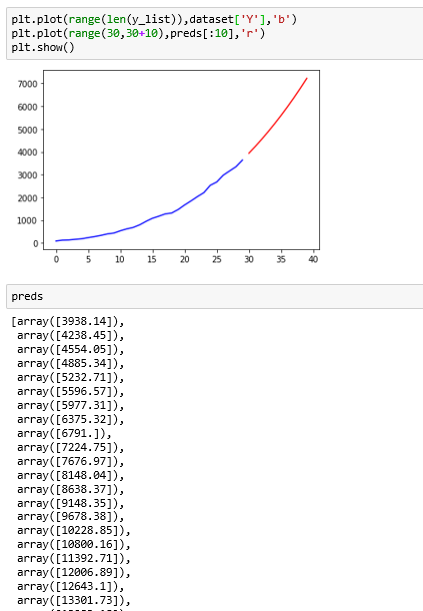
**Deaths IND**

**(poly 3)**

****

**Deaths MH (poly 3)**

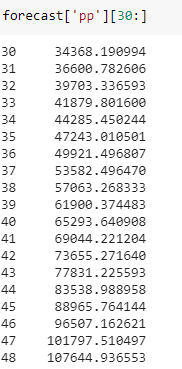
**Gender Male (poly 3)**

****

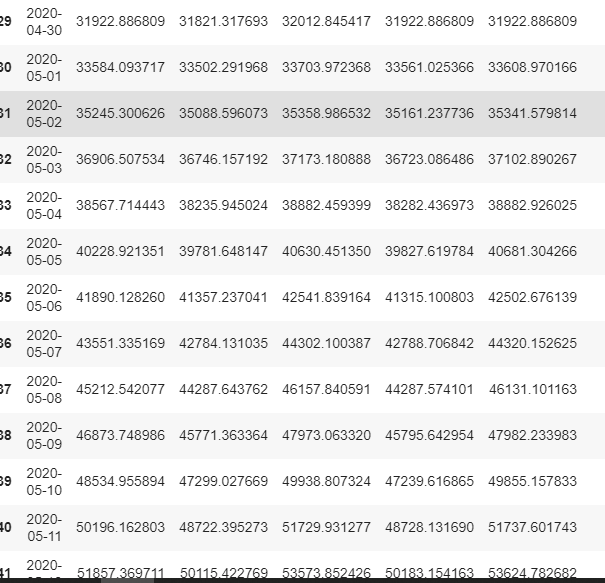
**Gender Female**

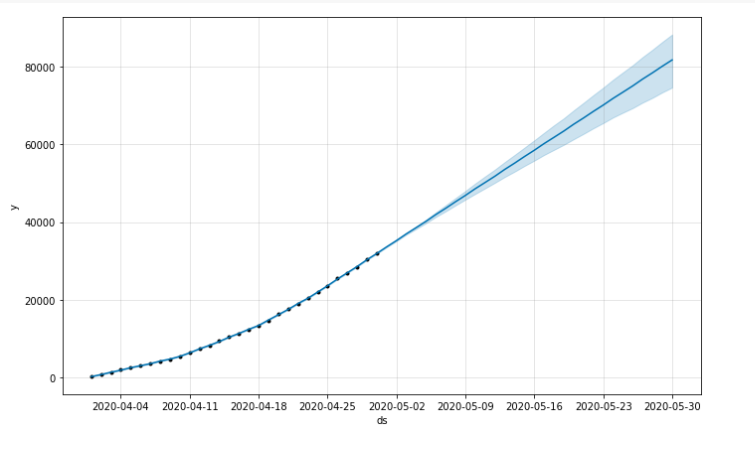
**Prophet**

Total cases india(Taking log of Cumulative)

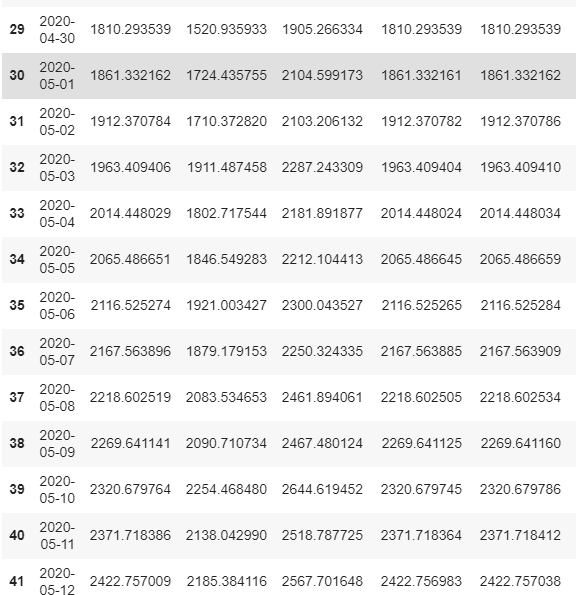
****

**(without log)**

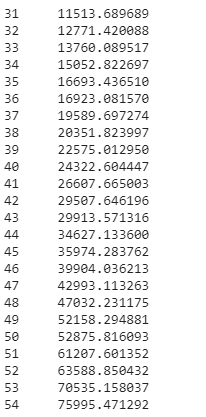
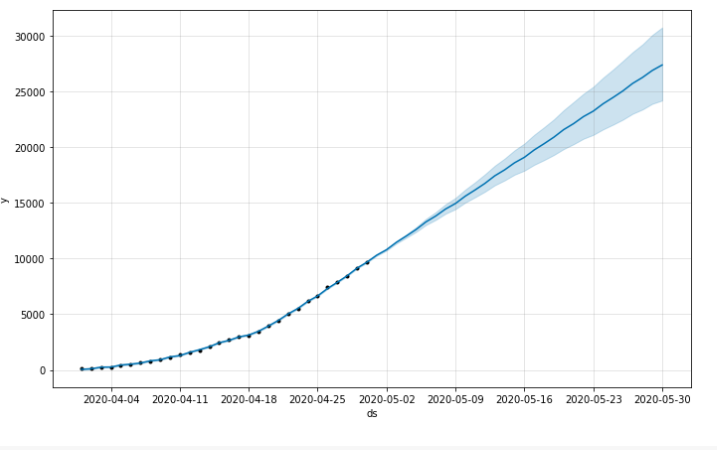
****

****

**(Daily)**

****

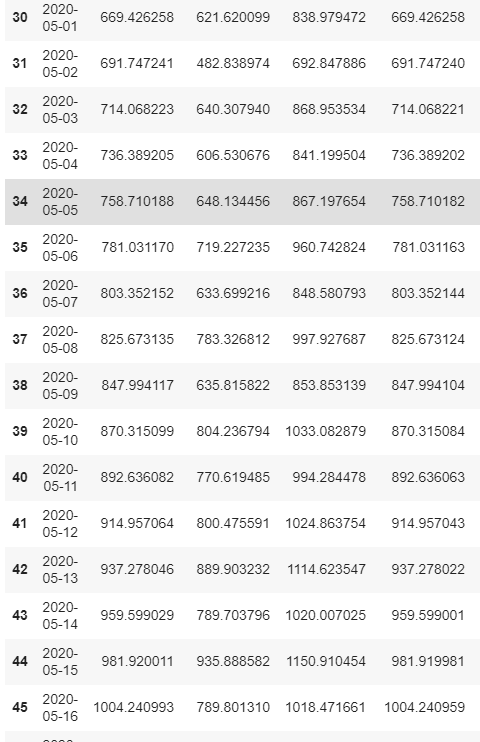
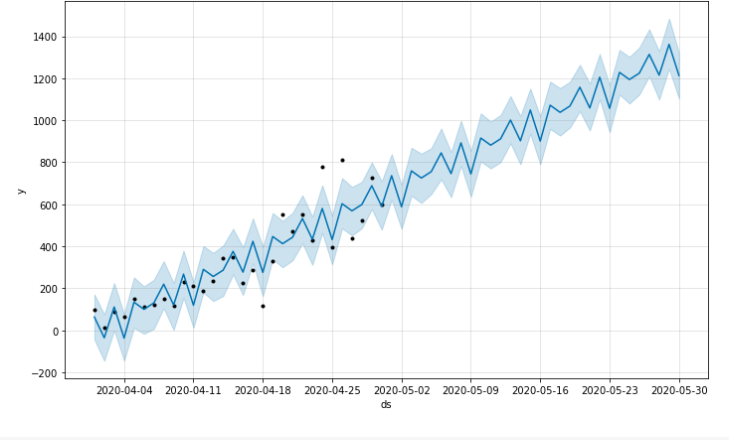
**Maharashtra cases (cumulative log)**

****

**(Cumulative)**

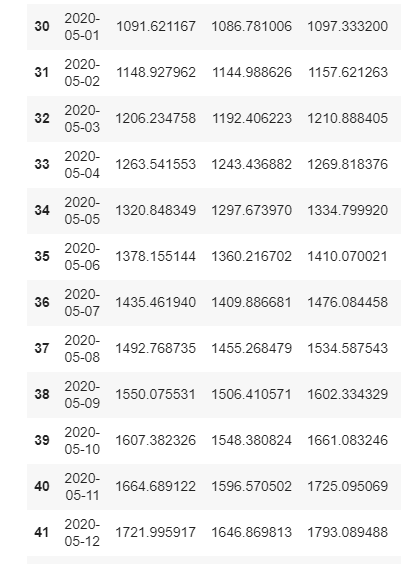
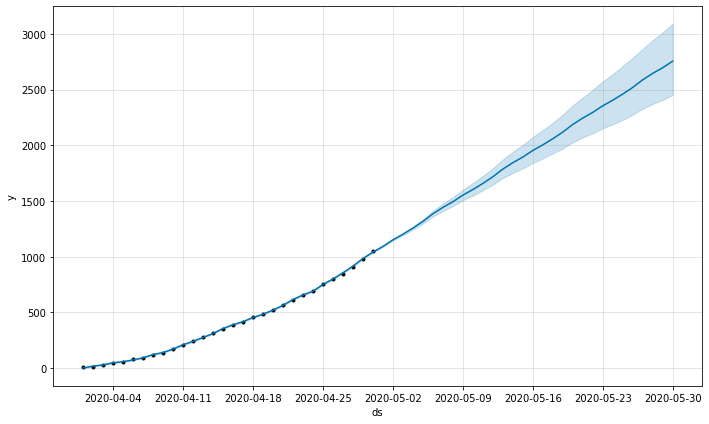
****

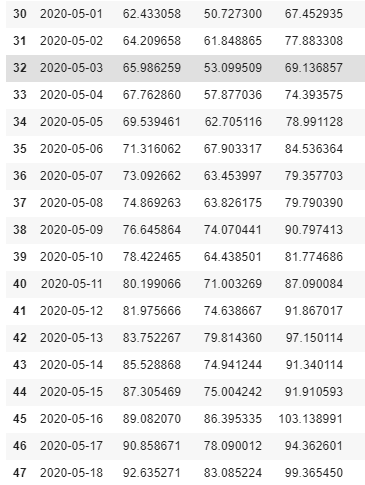
**Daily cases**

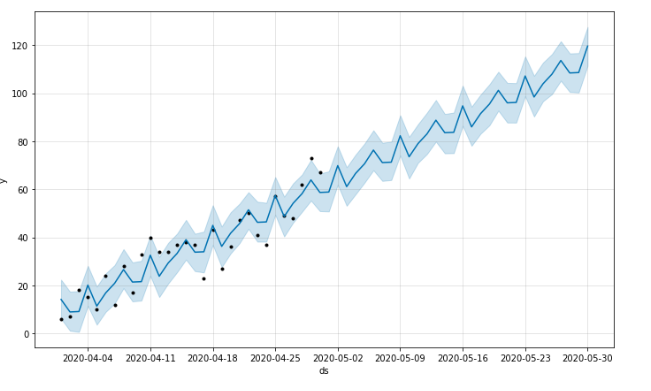
****

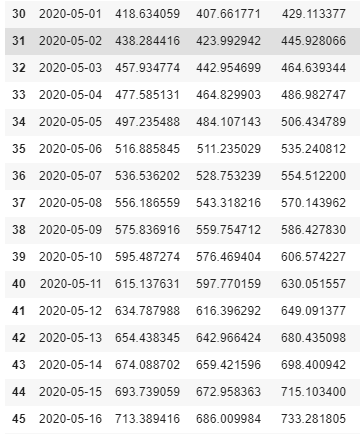
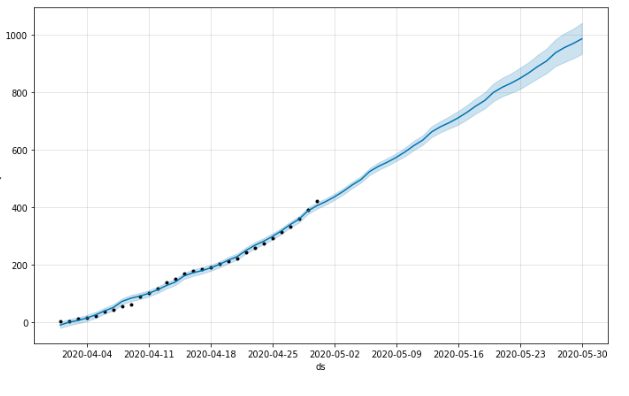
**Deaths India**

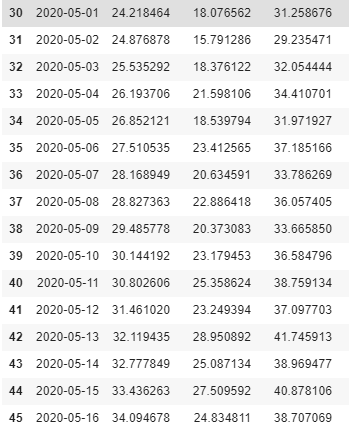
**(cumulative)**

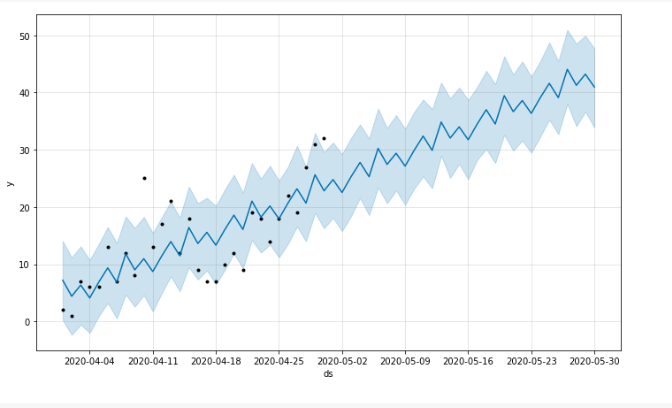
****

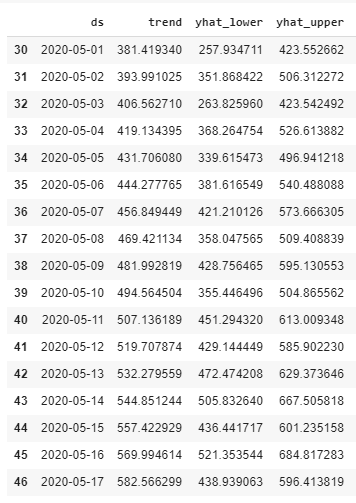
**(Daily)**

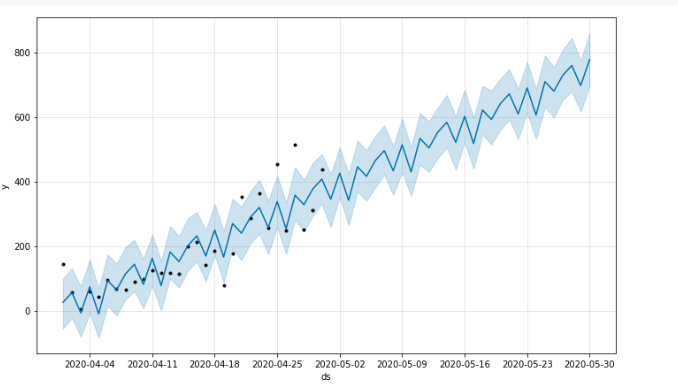
****

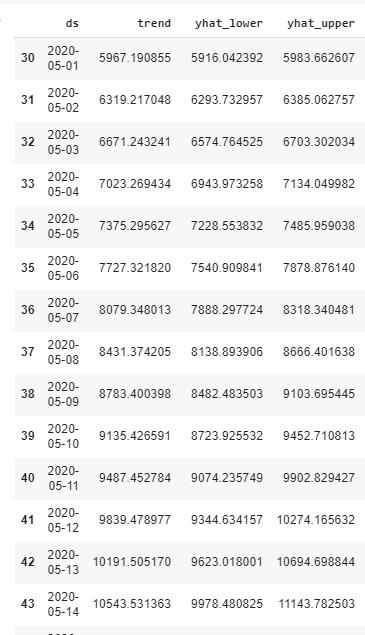
**Death Maharashtra (cumulative)**

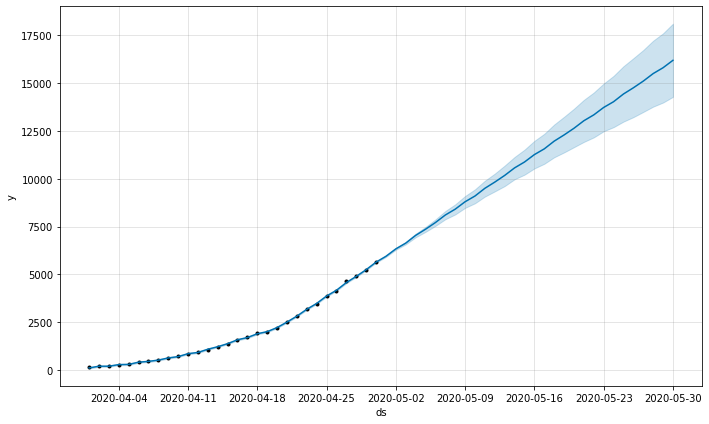
**Deaths Maharashtra (daily)**

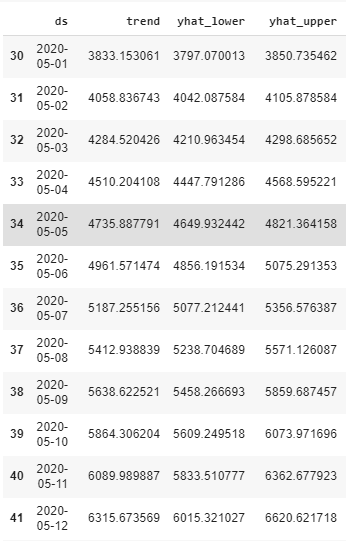
****

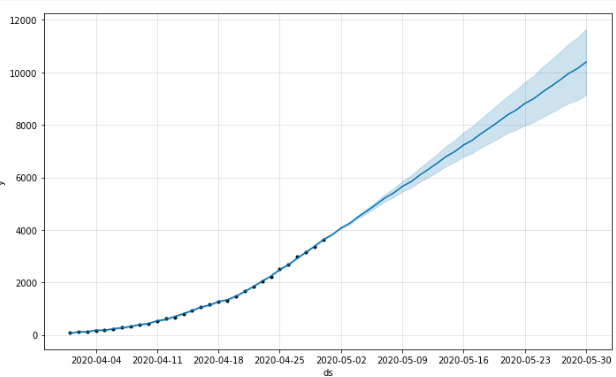
**Gender Male (daily)**

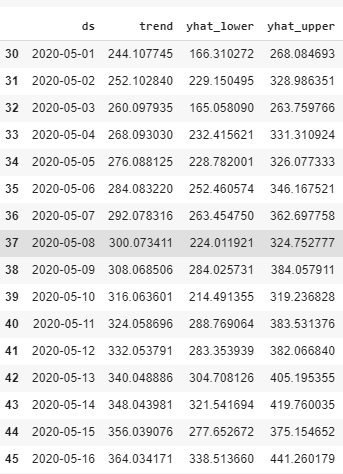
****

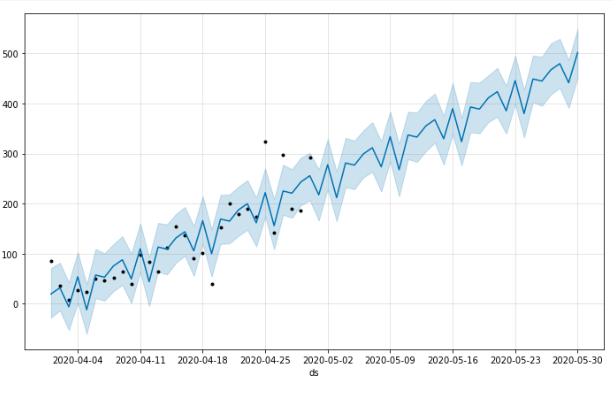
**Gender Male (Cumulative)**

****

**Gender Female (Cumulative)**

****

**Gender Female (Daily)**

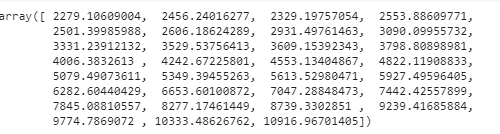
****

**ARIMA**

**India (each day using log)**

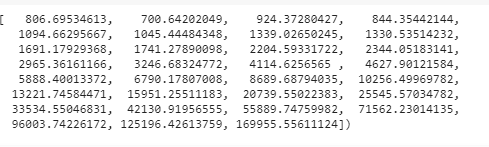
Arima has a stationary problem and hence I had to use log

(4,1,1)

****

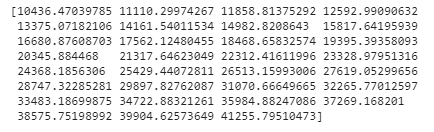
**Maharashtra (each day using log)**

Order (1,2,0)

****

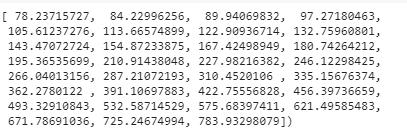
**(Cumulative)**

order(1,2,0)

****

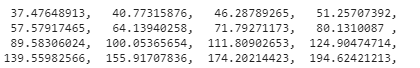
**Deaths India (daily)**

Order (4,1,1) using log

****

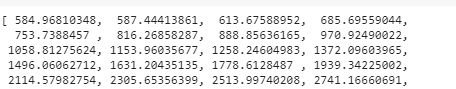
**Deaths Maharashtra (daily)**

Order (2,1,1) using log

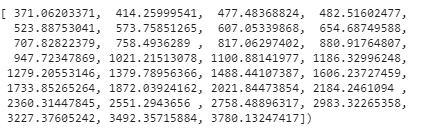
****

**Gender Male**

Order (2,1,1) using log

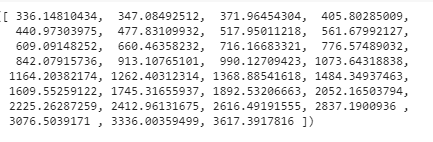
****

Order (2,2,1) using log

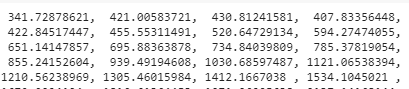
****

**Gender Female**

Order (2,1,1) using log



Order (4,1,1) using log

****