



Euroblight 2024

***A new *Alternaria solani* predictive model based
on Artificial Neural Network***

Unité/Labo: LTA

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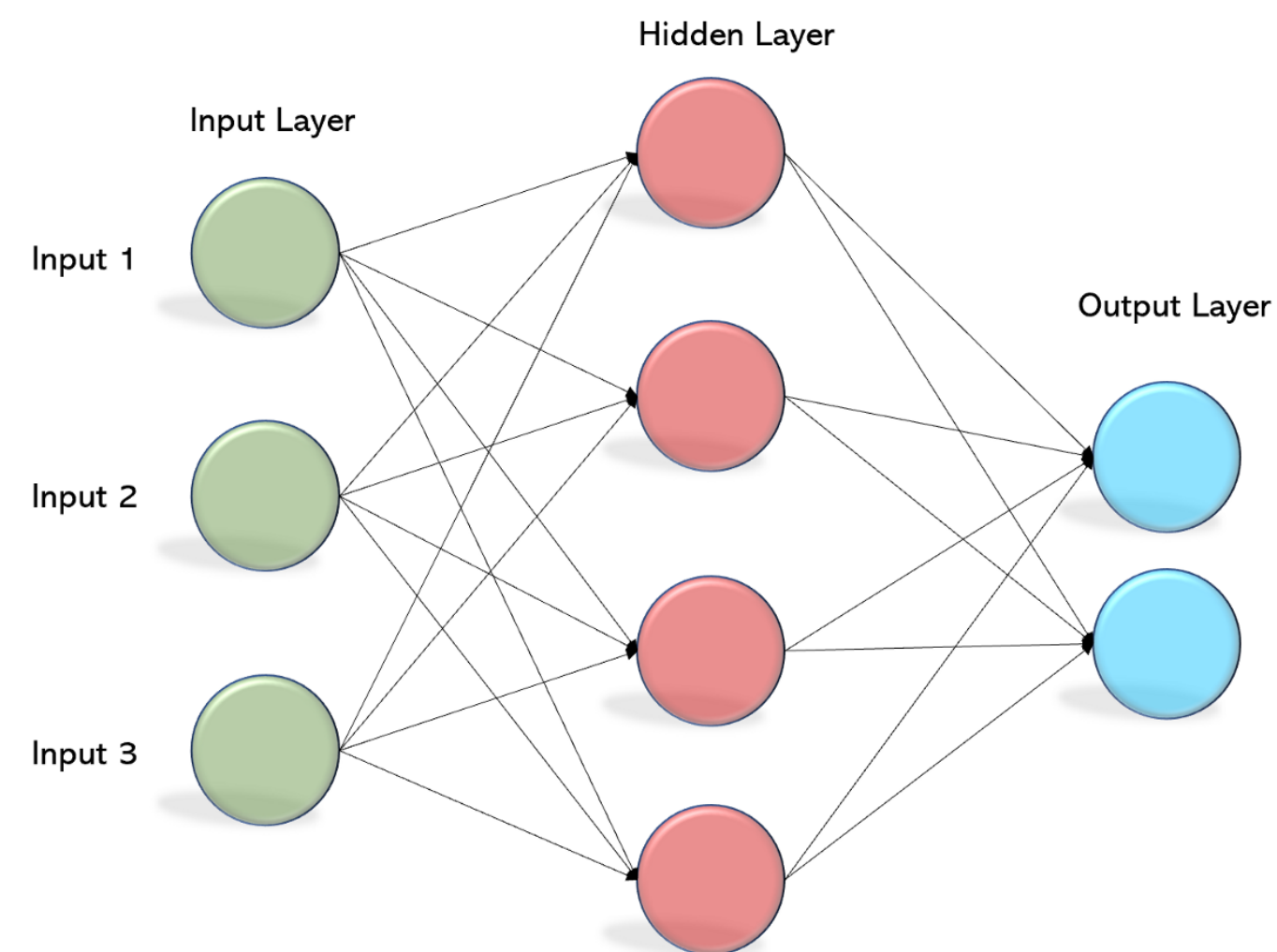
15/05/2024



- Haute Ecole Provinciale de Hainaut –
CONDORCET
- CARAH agricultural research center
- Hainaut Analyse (biotech)

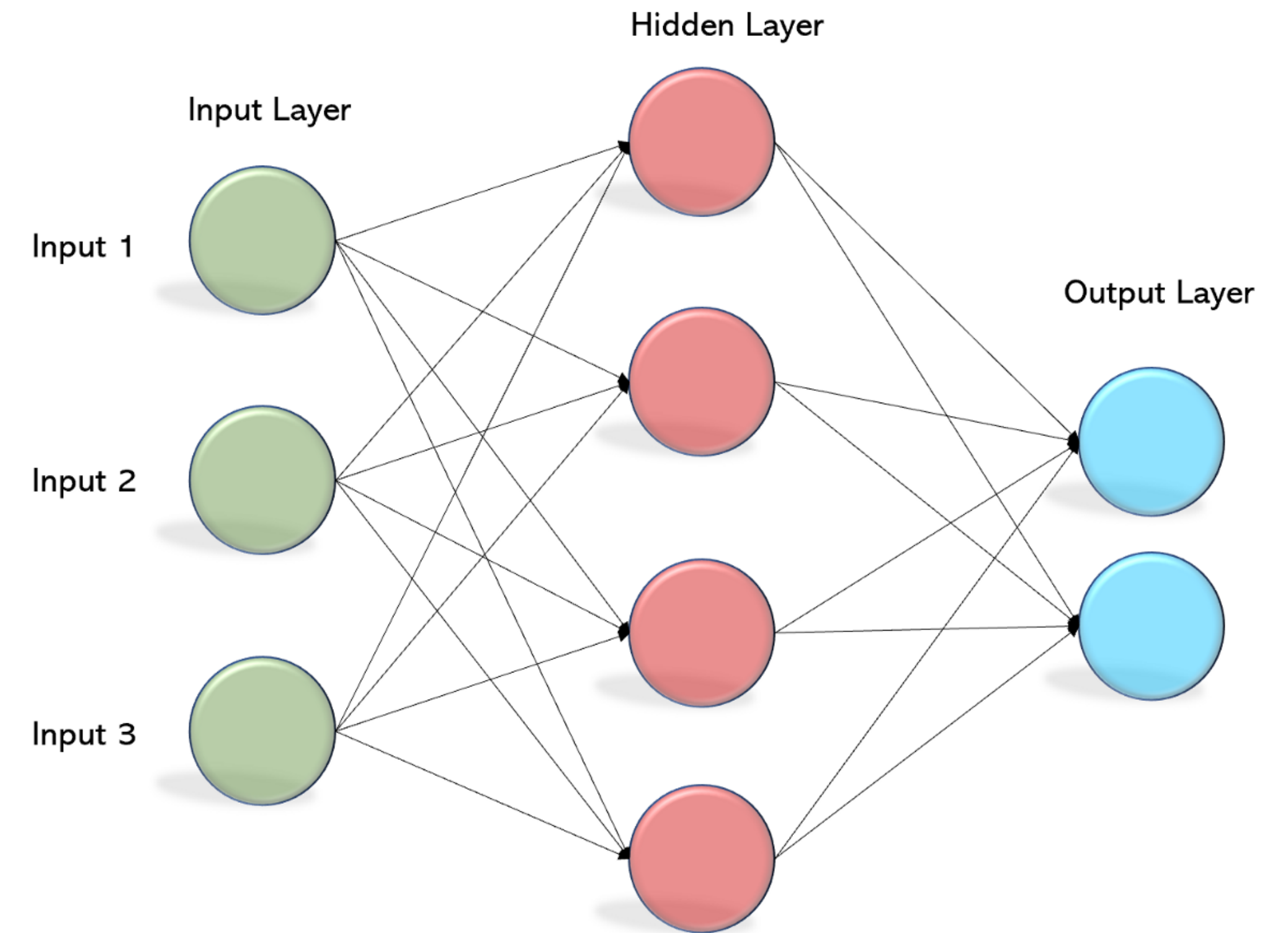


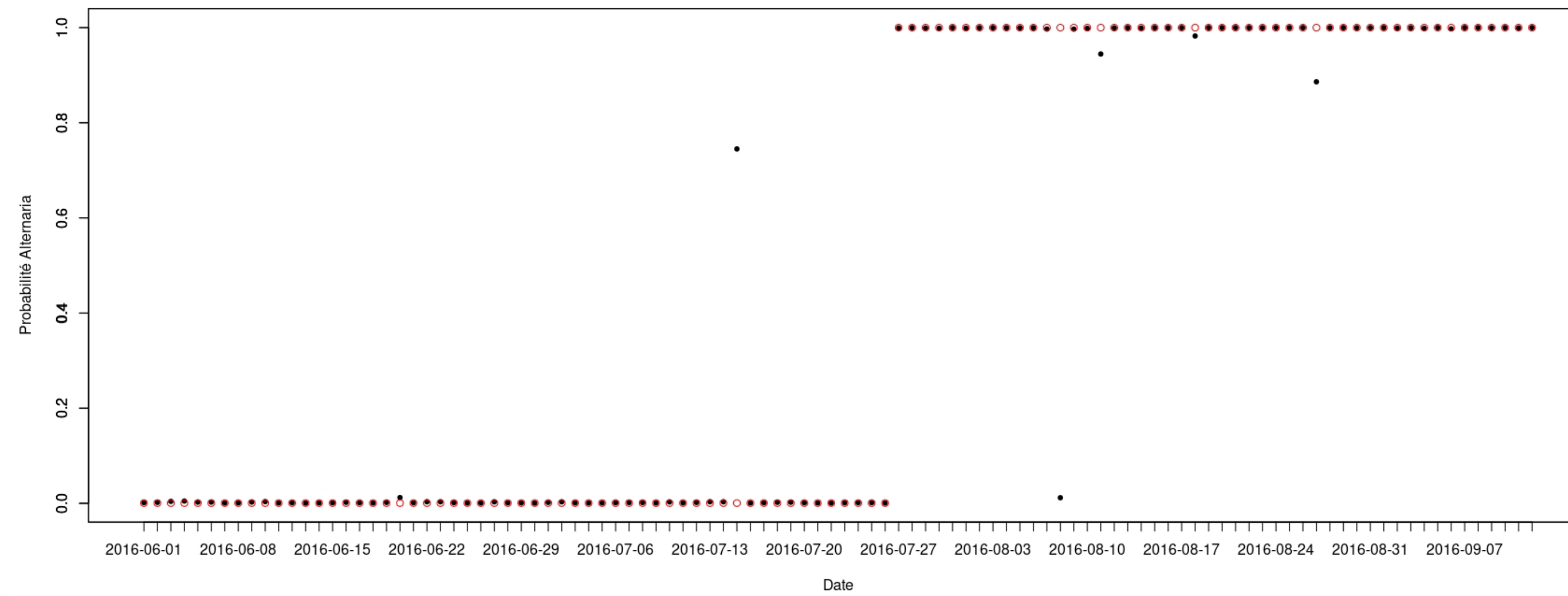
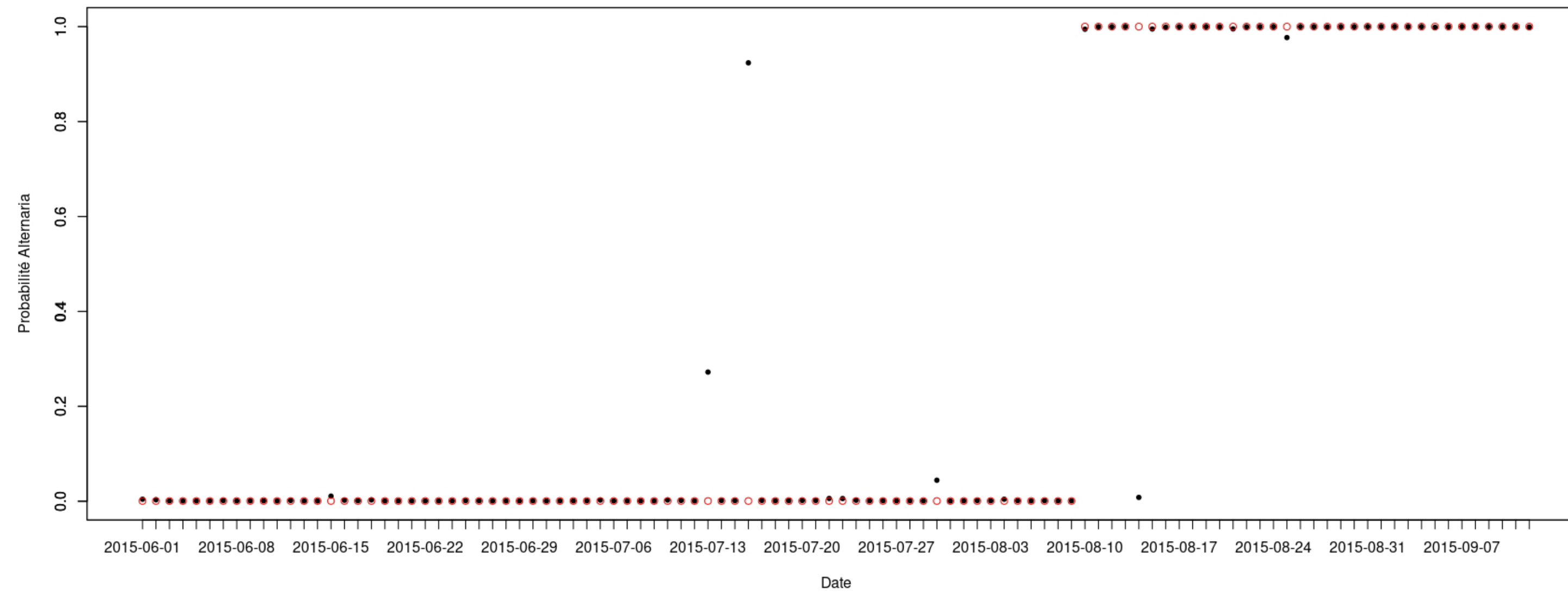
- Predict *Alternaria* appearance in experimental field
- Predict % destruction through time
- Using hourly data and 5 parameters
- AI model : supervised ANN

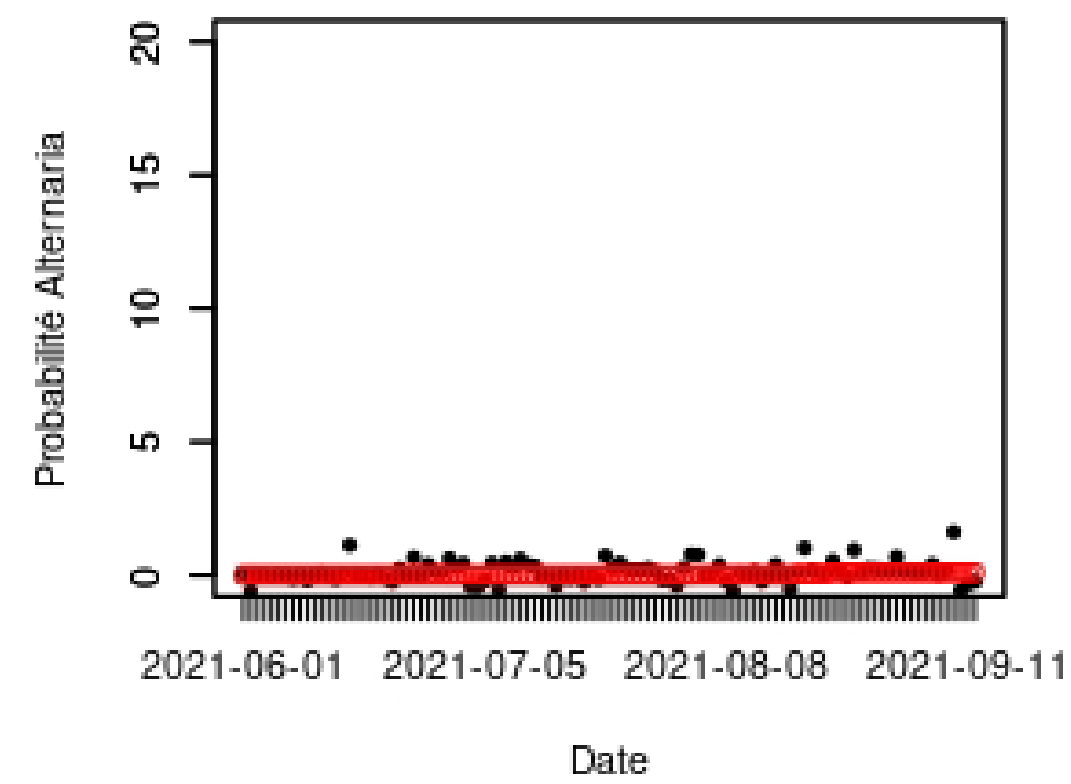
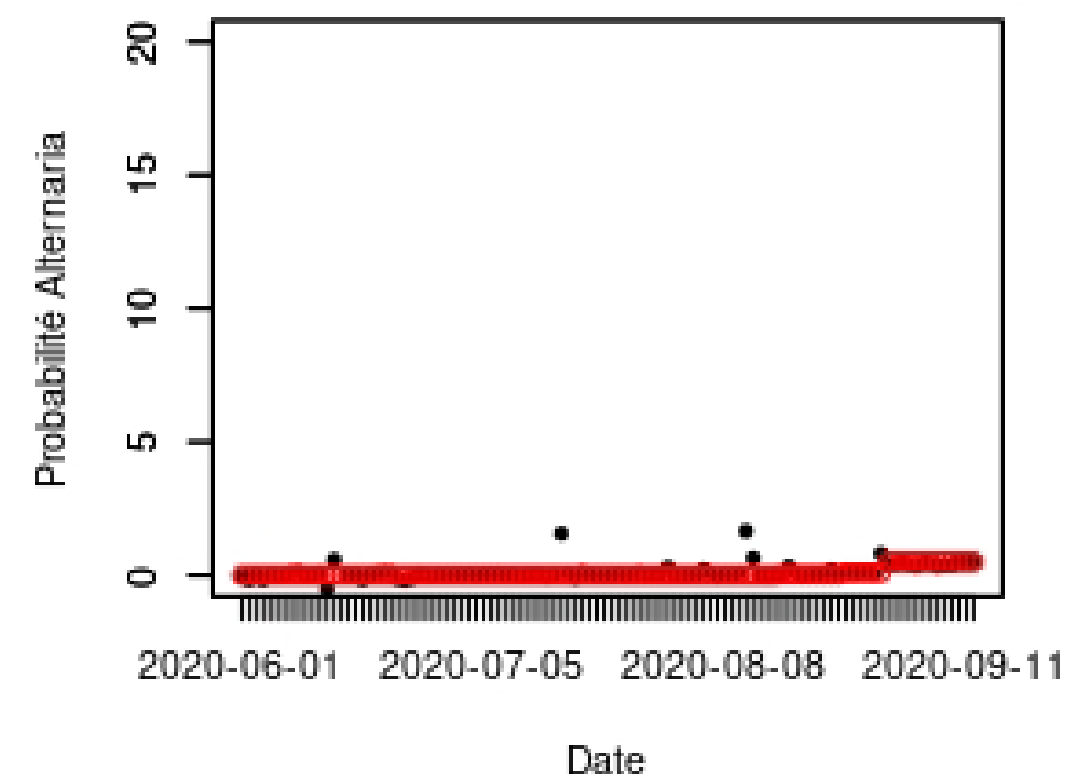
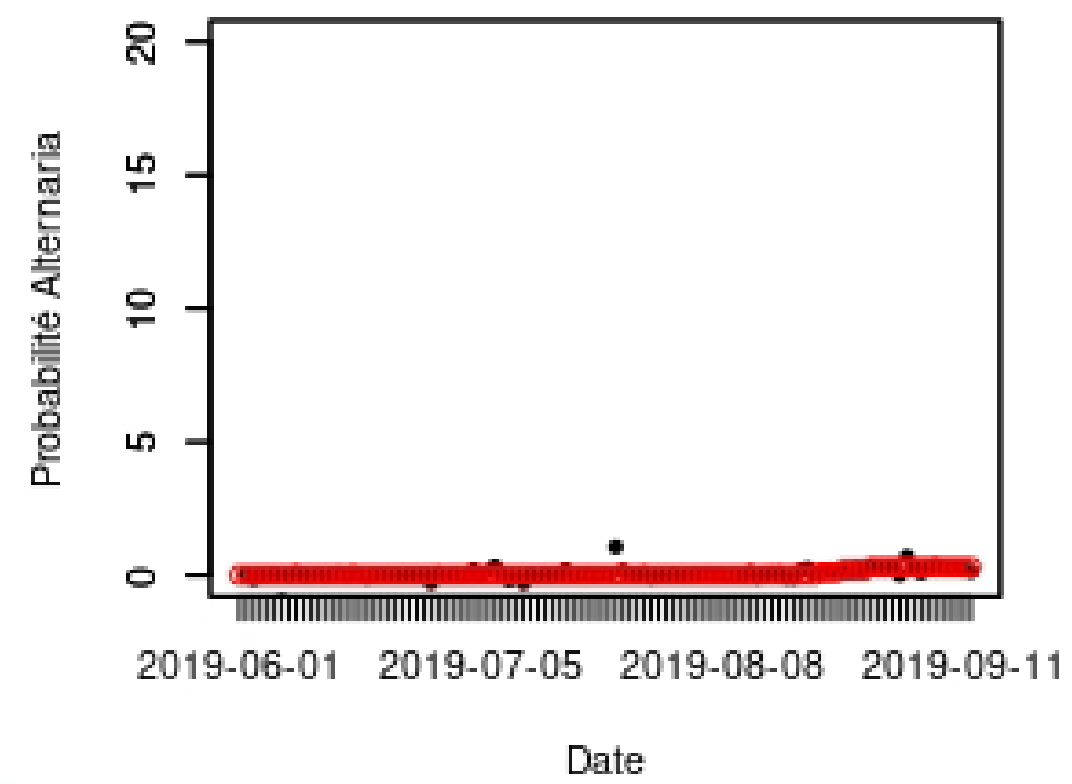
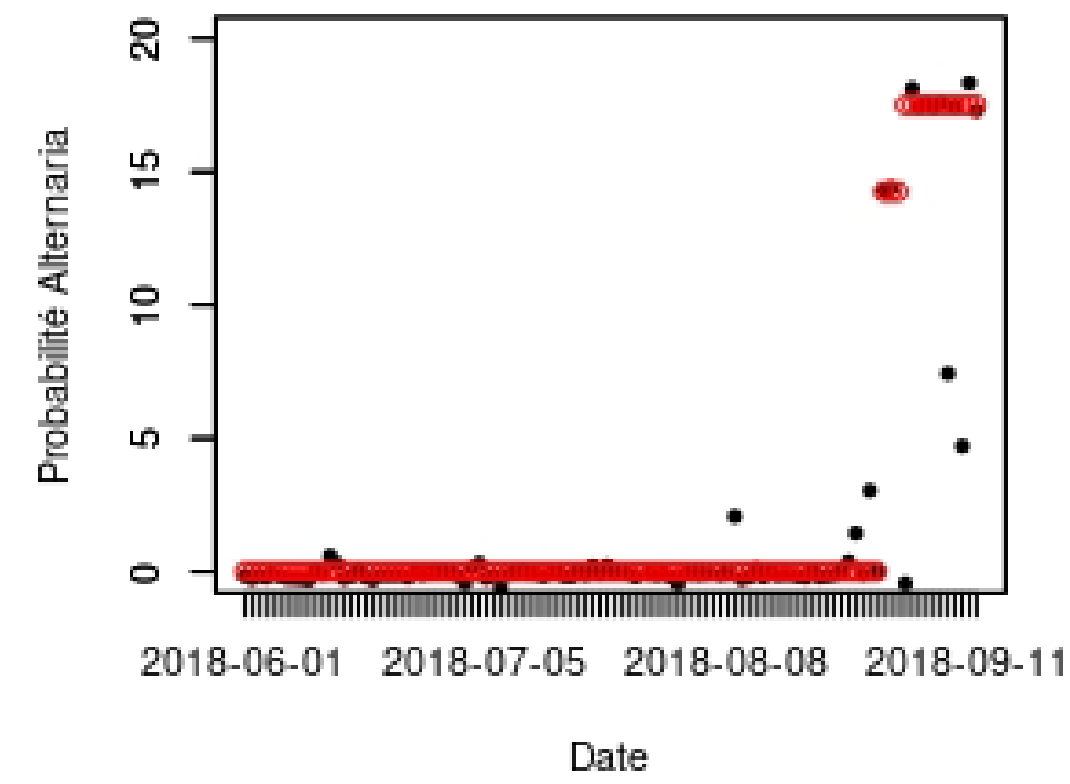
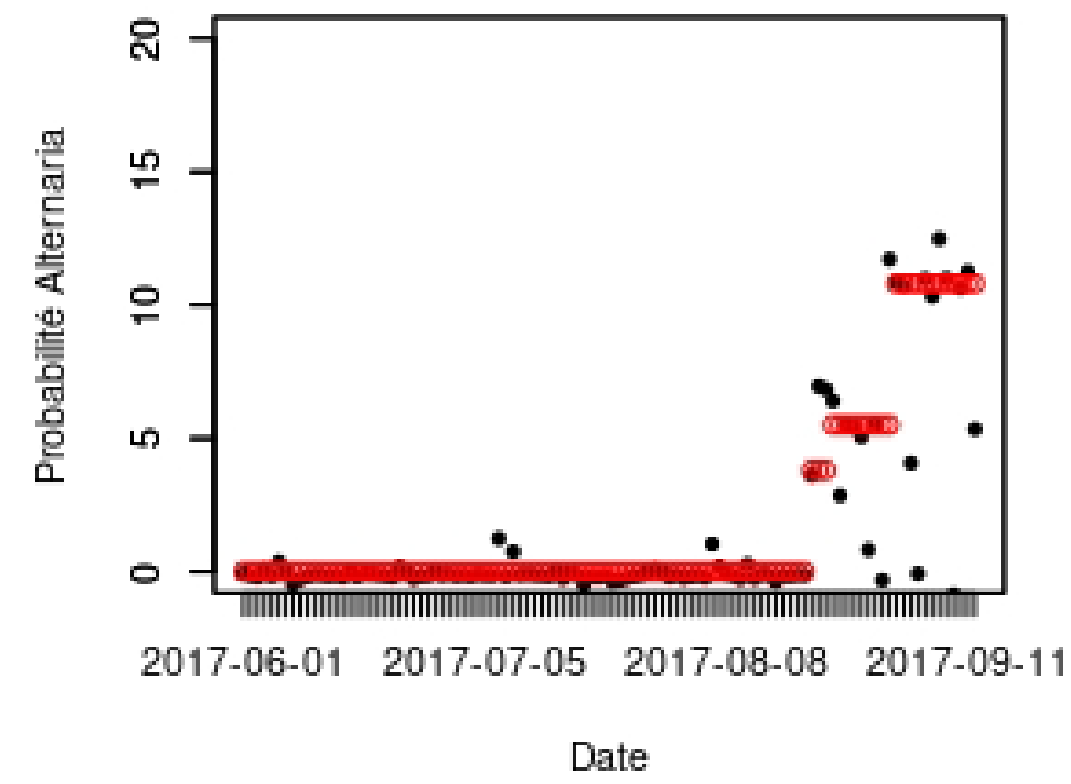
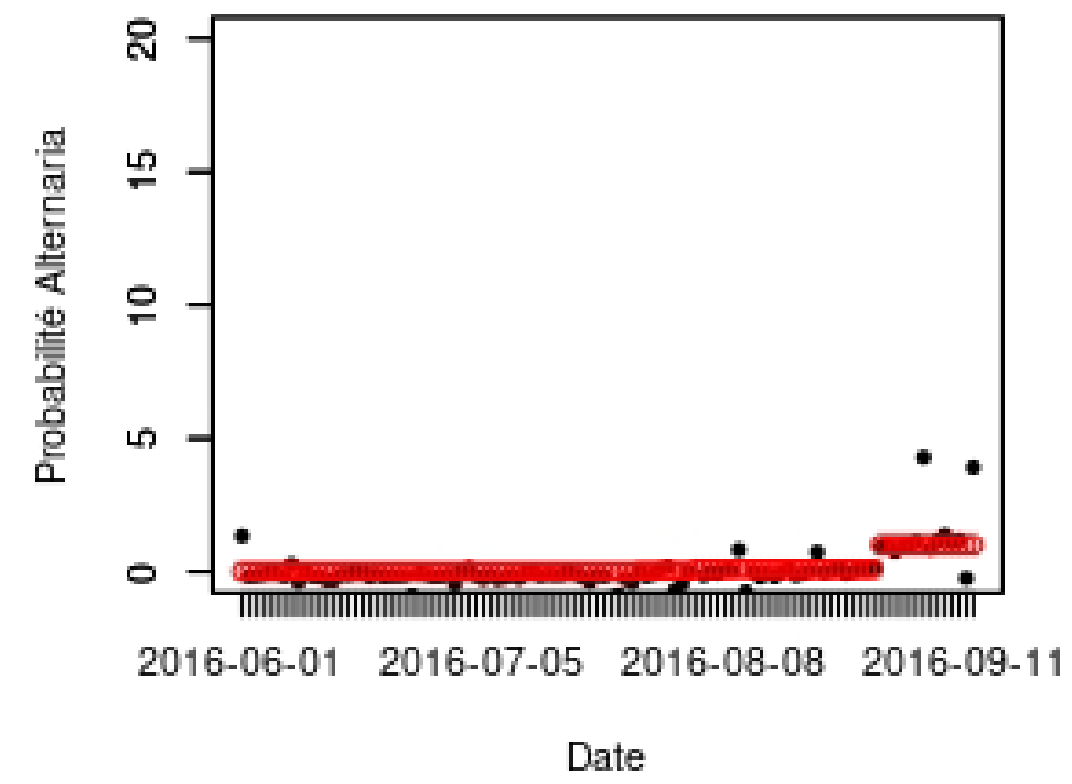
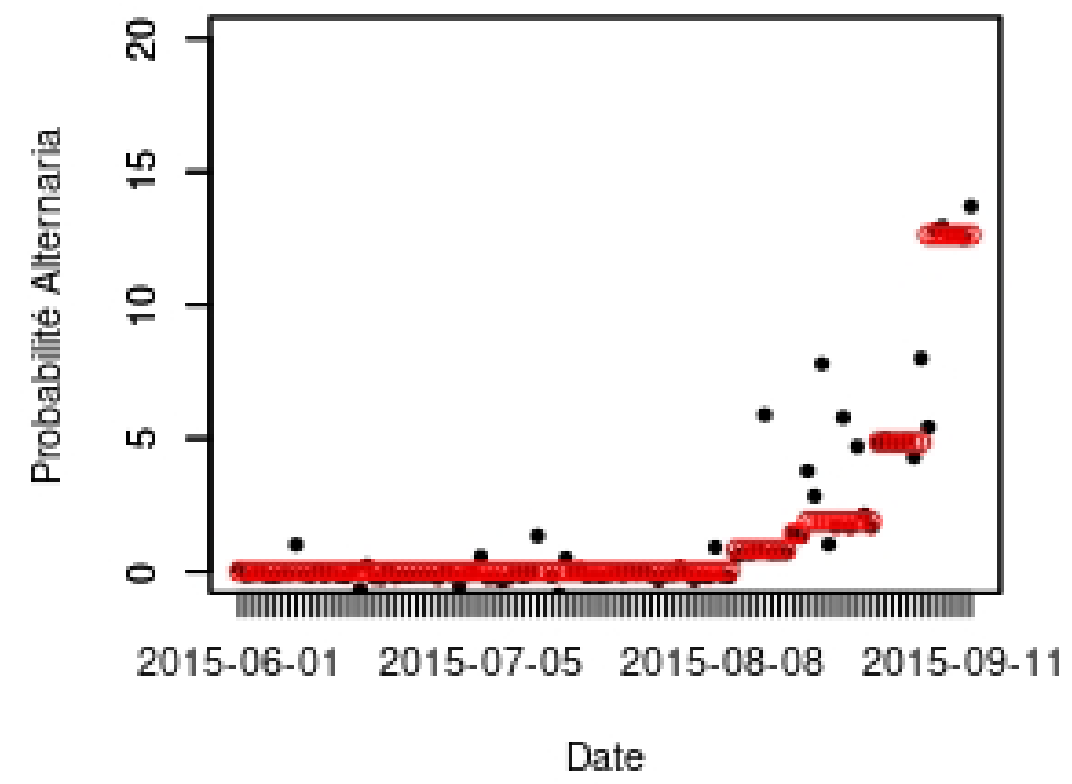


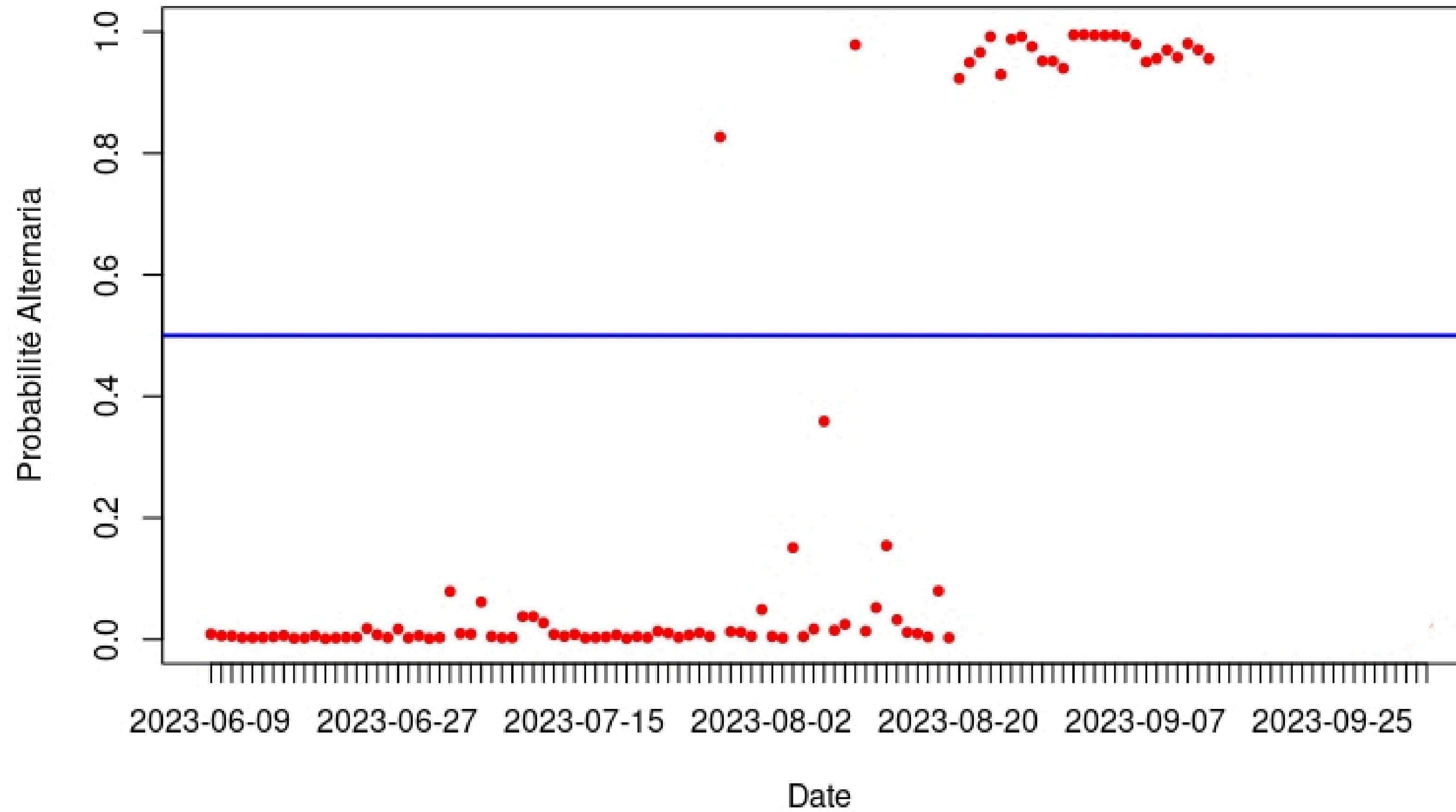
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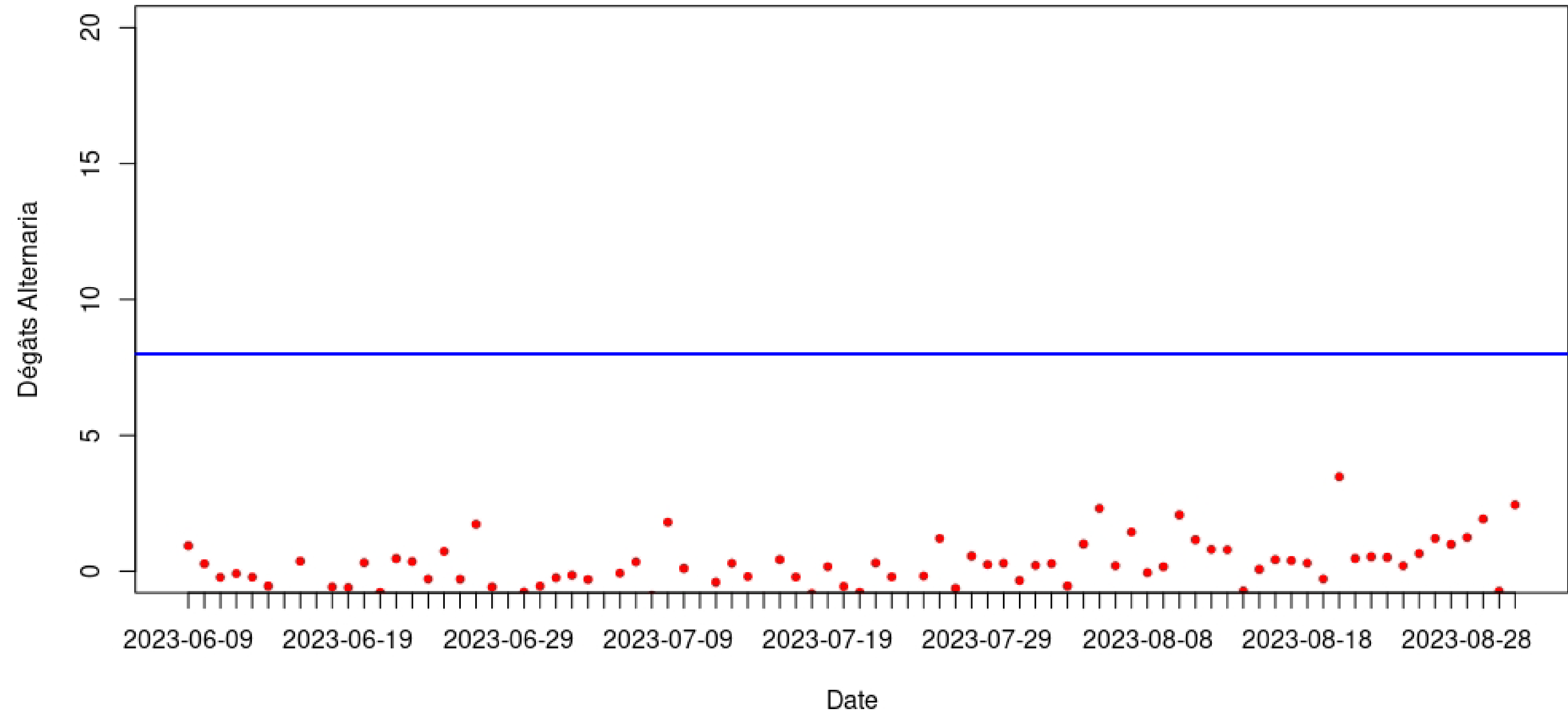
- 3 Layers
- Full connected
- Gliding windows : previous 4 days as inputs
- Delay of 5 days for output
- Supervised learning
- 5 years (2015-21) with contrasted conditions
- 2/3 learning data, 1/3 validation data













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