

### LINGUAGGI UTILIZZATI



**TOOL** 









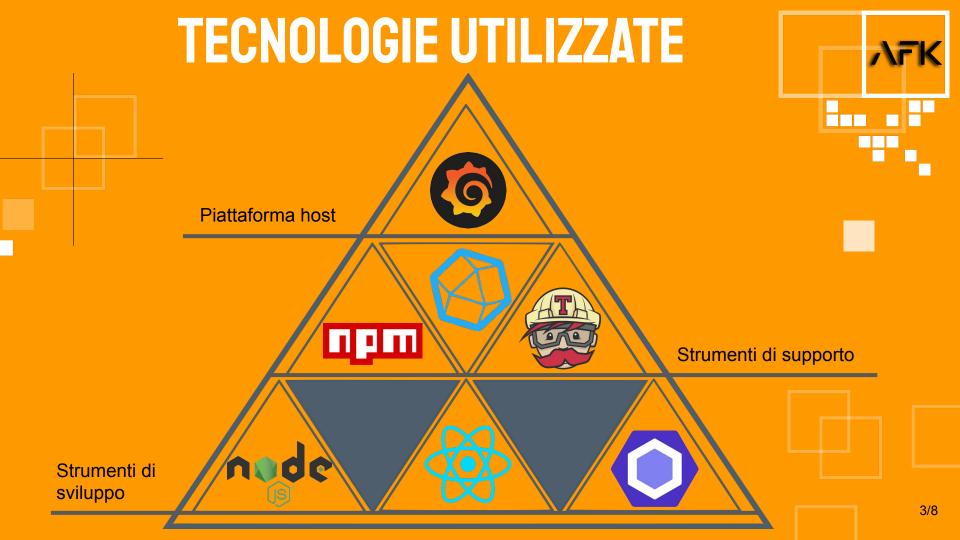
**PLUG-IN** 



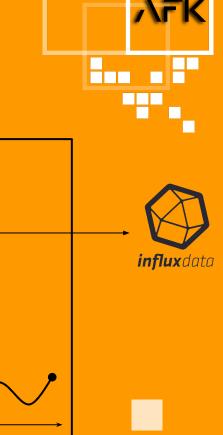


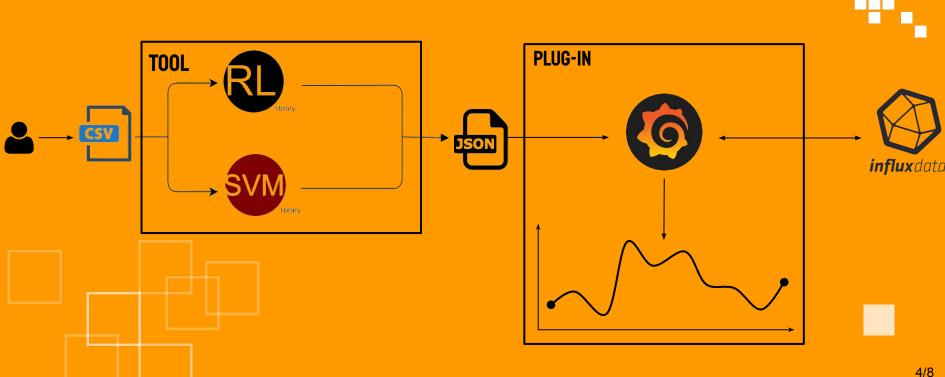






## **FUNZIONAMENTO GENERALE**





# CASI D'USO AFFRONTATI



CODICE	IDENTIFICATIVO	CASO D'USO
UC1	UC1.1	Selezione dati di addestramento
	UC1.2	Selezione dell'algoritmo di previsione
	UC1.3	Conferma procedura addestramento
	UC1.4	Salvataggio file JSON
UC2	UC2.1	Selezione del file JSON
UC3	UC3.1	Selezione database
	UC3.2	Selezione del flusso dati
UC9	Estensione UC1.3	Visualizzazione messaggio di errore "File CSV incompatibile"





#### TOOL & PLUG-IN





· aggiungere link al tool esterno per addestramento

#### SUPPORT VECTOR MACHINE

```
ΛFK
```

```
trainSvm = () => {
   let dataSVM=this.props.dataSVM;
                                                                          JS
   let data = [dataSVM.length-1];
   for(let i=0; i<dataSVM.length-1; i++) {
        data[i] = new Array( arrayLength: dataSVM[0].length-1);
   let labels = [dataSVM.length-1];
   for(let i=0;i<data.length;i++){
        for (let j=0;j<data[i].length;j++) {
            data[i][j] = dataSVM[i+1][j];
        labels[i]=dataSVM[i+1][dataSVM[i+1].length-1];
   sym.train(data, labels, {C: 3, numpasses: 100}); // C is a parameter to SVM
   return svm.getWeights();
```

```
downloadFile = () => {
    const myData = {
        author: 'TeamAFK',
        version: '1.0.0',
        algorithm: 'SVM',
        date: this.getDate(),
        predictors: this.getColumnsName(),//this.predictor(),
        result: this.trainSvm()
    };
    let data = JSDN.stringify(myData, replacer. null, space: 1);
```



#### REGRESSIONE LINEARE



```
insert(){
let data =[];
let dataY = [];
       for (let i = 0; i < this.props.dataRl.length-1; i++) {
           data = [];
            data.push(1);
               data.push(this.props.dataRl[i+1][j]);
            dataY.push(this.props.dataRl[i+1][this.props.dataRl[i+1].length-1])
            this.state.reg.push({ x: data, y: dataY });
       for (let i = 0; i < this.props.dataRl.length-1; i++) {
            data = [];
           data.push(1);
            data.push(this.props.dataRl[i+1][0]);
            dataY.push(this.props.dataRl[i+1][this.props.dataRl[i+1].length-1])
            this.state.reg.push({ x: data, y: dataY });
```



```
downloadFile = () => {
    const myData = {
        author: 'TeamAFK',
        version: '1.0.0',
        algorithm: 'Linear Regression',
        date: this.getDate(),
        predictors: this.getColumnsName(),//this.predictor(),
        result: this.state.reg.calculateCoefficients(),
        line: this.print_retta()
    }; // I am assuming that "this.state.myData"
    let data = JSON.stringify(myData, replacen null, space: 1);
```

