

jupyter Demand Prediction using Prophet Last Checkpoint: 20 minut

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[4]: import numpy as np  
import pandas as pd
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[5]: weeks = np.arange(1, 201)
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[6]: np.random.seed(42)
```

```
[9]: base_man = 100
      trend_man = 0.5
      noise_man = np.random.randint(-15, 20, size=len(weeks))
      demand_manufactured = base_man + trend_man*weeks + noise_man
```

```
[10]: base_reman = 60
      trend_reman = 0.3
      noise_reman = np.random.randint(-15, 20, size=len(weeks))
      demand_remanufactured = base_reman + trend_reman*weeks + noise_reman
```

```
[11]: df = pd.DataFrame({
        'Week': weeks,
        'Manufactured_Demand': demand_manufactured,
        'Remanufactured_Demand': demand_remanufactured
    }).round(2)
df.to_csv('synthetic_cleaned_demand.csv', index=False)
print(df.head())
```