**Lab # 11**

**Time Series Analysis**

Time Series Data Analysis is a way of studying the characteristics of the response variable with respect to time as the independent variable. To estimate the target variable in the name of predicting or forecasting, use the time variable as the point of reference. A Time-Series represents a series of time-based orders. It would be Years, Months, Weeks, Days, Horus, Minutes, and Seconds. It is an observation from the sequence of discrete time of successive intervals.

The time variable/feature is the independent variable and supports the target variable to predict the results. Time Series Analysis (TSA) is used in different fields for time-based predictions – like Weather Forecasting models, Stock market predictions, Signal processing, Engineering domain – Control Systems, and Communications Systems. Since TSA involves producing the set of information in a particular sequence, this makes it distinct from spatial and other analyses. We could predict the future using AR, MA, ARMA, and ARIMA models.

**Sales Forecasting with Prophet in Python**

The Prophet library is an open-source library designed for making forecasts for univariate time series datasets. It is easy to use and designed to automatically find a good set of hyperparameters for the model in an effort to make skillful forecasts for data with trends and seasonal structure by default.

We will use store sales [transaction data](https://www.kaggle.com/c/store-sales-time-series-forecasting/data?select=transactions.csv) from Kaggle. The dataset includes dates, store and product information, and sales numbers. It contains four years’ worth of sales data sold at Favorita stores located in Ecuador. You’ll need to download the data and upload it into your Colab.

Let’s begin by installing the model.



After installing it, we need to import it into our notebook and loading the dataset.

![A screenshot of a computer

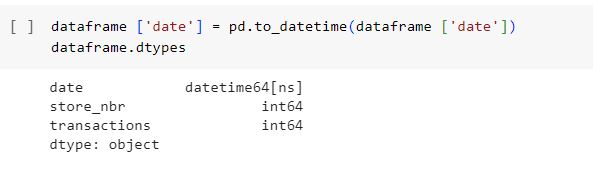
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Q+a3oKPNb0FAE1FQ+a3oKPNb0FAE1FQ+a3oKPNb0FAE1FQ+a3oKPNb0FAE1FQ+a3oKlByoPtQAtFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAEMv3h9Koalq2naNbrPq+oWthCzbFkupliUt1xliBng8Vfl+8PpXn/wARbXQI77TtS1mzfWdRKSWml6Kyo8dzK+MttI4xgZcnCj3xSbaGlc7uKWOeFJYXWSORQyOhyGB5BB7inVz3gPw/P4W8D6Zo93KJZ7aM+YVJKhmYsVBPYZwPYV0NXJJNpEq7WpS1PWtL0WNJNY1Kz09JDtRrqdYgx9AWIzTr7VtO0uzF5qd/a2dsxAE9xMsaEnoNxIHNZevXen6LdrqIs3vdYuovsdpbRMTJOM7toBOFXJyz8AAAk8CsTRNIk0fxJ4b0u/dJXtNJunQIP3aymSINsz0CqxUf7JNSrt2/rZv9BvTX+uh28U8U9uk8EqSQyKHSRGBVlIyCCOCMd6gl1Owg0z+0Zr22jsdgk+1PKoi2no2/OMHI5zXJ6bo9vqvhLU9PmeWPT4dSuwkNvKUWSMO/7skc7NxPygjpjpkGfwxDZT/D7wl9rEElzHZQSWMU82wPMIOMdckDcehxjOOKFqm/T8bhs7ev4HU2l5bahaR3Vhcw3VvKMxzQuHRx6hhwagv9a0vSpYItU1KzspLg7YUuJ1jMp44UMRnqOnrXNeH9UOkDWxrUE63n9pGSaDT7aW6jj8xFZNnloXIKjLMyr85bgAjL7JbTVfEXiaS9i3xyWVtGEuYihFu0bNgqwBUFi+QccjkUpOyv/W2wLezOrnnhtYHmuZUhiQZaSRgqqPcnpUleaazp39rfBvTL/U5riSW206CRYvNIR5D5eHcD7zDHGcgZJxnBHeXusW2n3UFvPFeu85whgsZpkHOPmdEKr/wIj1qpK0uUSY461pY1YaUdSs/7RK7hZ+evnYxnOzOcY56U2TXNJh1ZNLl1SyTUJBlLRrhBK3GeEzk8D0riFRD8OprshTff240u9uG88X2wc+uAFHtx0rS161tbuSbwtoNtuury5W9v7jJZbMbw/mMxP+sO0BFHPQ8KtJdP6/r+u+jfX+v6/r59pRRRQAUUUUAFFFFABRRRQAUUUUAQXt9aabZvd6jdQ2ltHjfNPIERcnAyx4HJApLG/s9Ts0u9NuoLu2kzsmt5BIjYODhhweQRVPXf7Kt7WHU9b2iLTpfPiZi3yyFSgwo+8x3kAYJyRgZxVLwnZ3a/2nqt7bGybVroXKWbY3QqI1Qb8cb2CBiO2cc4oWtwZ0NFFFABRRRQAUUUUAFFFFABRRRQBQh1zSbjVJNMt9Uspb+IEyWiXCNKmOuUByOo7d6d/bOmf2t/Zf8AaNp/aO3d9j89fOxjOdmc4xz0rmDa2t9q2m6F4dttljoV2Lm6vMllicBv3KsTlpGLEucnAJzywFM8QRxWlpZ3OkxWp0ePVkur27guPMnE3nYYKpGD85CsS+Qu5QvAFC1tf+vP8/u8wel7f1vp/XfyOku/E2g2GoCwvtb062vCQBbzXcaSHPT5Sc89qmu9a0vT723s7/UrO1ubkgQQTTqjyknACqTlueOK5CeXWfDj+JfEcN5pV5YfbPPltI43eYokaRlPN3hUcBT8pRueM88Vddiur+bxidLtYbm2kt0tr2Wc7ZYGSHdiJekmFkDAM0YDE4Y5OFf3b/P+v8x21sejVYX7o+lZ2nTx3Ol2s8DvJFLCjo7/AHmUqCCfetFfuj6VTVnYlO6uLRRRSGFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAQy/eH0rmPEvw/8M+L7yG68RacbyaGPy4z9plQKuc9FYDqevWupkQs3A7Uzy29P1oAztE0PT/Dmjw6Xo1v9msoN3lxb2fblix5Yk9Se9X6d5ben60eW3p+tNtvVgYupeFtL1XVF1G6F4l2kXkiW21Ce3OzOdv7t1HXn8vSnXHhnTbuxtrW4F04tWLQzfbpxOhOQcTB/M5BIPzcjitjy29P1o8tvT9aXSweZUs9OtLDTY9Ps4FitY02LGpPA789ST3PUnmqc3hrSZ9DtdIe1Is7MRi2CSurw7BhSkgIdSBxkHOM88mtfy29P1o8tvT9aA2KGl6RZaNbNBYRMqyOZJHklaWSRz/E7uSzHAAySeAB0Aqtq3hjSdbuBPqNvI8nl+SxiuJIvNjznZIEYCRc5+Vsjk8cmtjy29P1o8tvT9aAKd9ptpqOmvYXkIe1kUK0YJUYBBA4wR0FWqd5ben60eW3p+tAGMfC2kHWP7TNs/wBo83z9vnyeV5uMeZ5W7Zvx/Ftz71XHgvR1vJ7mJtShkuZjPKINXuo1dz1JVZAvYdugxXQ+W3p+tHlt6frQtNgG0U7y29P1o8tvT9aAG0U7y29P1o8tvT9aAG0U7y29P1o8tvT9aAG0U7y29P1o8tvT9aAG0U7y29P1o8tvT9aAMvWdA0/X47dNSSdhbS+dC0F1LAyPgjcGjZTnBP51Lpmk2+kxPHayXkiu24m6vZrkj6GRmIHsKv8Alt6frR5ben60ANop3lt6frR5ben60ANop3lt6frR5ben60ANop3lt6frR5ben60ANop3lt6frR5ben60ANoIyMU7y29P1o8tvT9aAOe07wXo+lPEdPOpQrE+9Iv7WujHknJyhkKnJJJBGDmpf+ER0X+1Df8A2VxK0/2kxC4l8gy/89DDu8svkA7tucjPXmtzy29P1o8tvT9aNgMWfwpo9zqTX0ts5leRZZIxcSLDJIuMO8Qby2YYHzMpPyr6CjUfCuj6rePc3tvIzyqFmWO5ljjuAOglRWCyDHGHB446VteW3p+tHlt6frQAxVVFCooVVGAAMACrK/dH0qHy29P1qZeFGfSgBaKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiuF+J2l6lc6OdRs9Y121t7GJmNjoKEXFzKxAUlwc7Fzkrjpk54FTJ2VxpXdjuqKwfA2pT6v4E0a/vLyK9uJ7RGluIhhXfHPGBg54PA5Breq5LlbRMXdXCiue8S2NsfN1PXdZurLSLS3JaK2upLXa+eZGkjdWbjACdM56kjGFp7arrcnh/SNduL623adNe3Qina2nlIdEiDtGQwO1yWAI+YD6VKu9P66/5Den9en+Z31FcbYz65deEbu007UUW7sryeza/uk8yQRRlsOF6PJjaMtgZyxz0MmjRXWtfDXw9LdaneRhrGCe9kgLme5XyslQ6neCWwSV+Y4IHXNPdNry/EOtvX8DrqK5nwPfNeaffoJLlre3vpIrZL1nNykWFIEof5wSSxXf82woT1qreWk3iLxLrUEmo39nHpkMUdqLO6eHbK6lzIwUgSfwAK+V4PHJypPlV36gtXY7CivPde1jX9S+F9hrOn30WniWyiuLuSNT5rsxT5E5wgOWy3J6AAZyPQqpqzsK4UV53594dBk8XtqN6LtNTZVgFy/2f7OLnyfK8nOzlBndjduOc9qt+JrW40tlu49Zvp9fvb0LpttFcSJEV3D92YA3lsqx7izsM9TkHbhf1/X9d/K77/1/X9edu5ooooAKKKKACiiigAooooAKKKKACis7W7GS/sViW9uLSFXD3BtQwlljAJKKyncpJxyvzYBAwTkZPgi9a6tdTiWW6e2tr1o7VL9nNzHHsU4kEn7wZYsV3/MVK+1C1bX9f1/wQeh09FFFABRRRQAUUUUAFFFFABRRRQAUVw9wJdF8W6Sh1PU7i+vLtvtcs7SpZNEyvtjVWPlK4IQKqfOcZOQWJbqOu3+oeM9E/s6dodHi1N7Nyjf8fsoglL/8ARl2+7bv7oyLUO/9d/8AI7qivMtb1SaHWtXn/tDUI9Rtb+GOxaO4kFhHFiPKTEHyVJ3PuEmHOV29UrX8Z6Olzd2trp15qtvqerz+WssGrXMaW0armSURrIE4UYAxjcy5B5o6J9/6/wCHDq0dtRTIYhBbxxKzsI1ChpGLMcDGSTyT7mn0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABXI+LPBN3retWmt+H9ek0HVreBrVrlbZbhZIWOdhRiOQeQc+vtjrqKVrjuZXhnw/aeFfDdno2nl2gtU2h5DlnJJLMfckk/jWrRRVNtu7EtDmvEPhvVNY1uyvbbU7GO2shvis73T3uE87PEvyzJlgPu5BxyRzyJbzQtUuZtP1GLU7SHWbNJImuPsLNBLG5BZTF5u4cqhB39V9DiugopdLAZek6KNL0NrFrlriaUyST3DrgySSEszY7DJOB2GBVGLwzeWfhXRtM0zWHtrrSI4kS48otFPsTYRJEGG5SCTjcCDgg8V0VFH/A/AP6+85618IWk8N23ieOz1u4vZ1nm86zUQqVXYgSNi23C9ySSSecYAivPClzHeSy+GtRg0eK5tUtZ4RZCQKqZCNFhlEbBWI5DLwvy8c9NRQ9QMXUfDUF34OPh60lNrAsCQRuV37FTGOMjPC+tW77QtI1O7gutS0qyvLi3OYZri3SR4uc/KSMjnnir9FD1d2K1jlf+EOuBM1omqKuhtffbmshbfvS5fzCnm78eWZPmxsz1G7FNj8M69B4kvNYi1rS5ZrhtkbXOlSSSQQZyIUYXCgLxk4UZPJzxjrKKFoN6hRRRQAUUUUAFFFFABRRRQAUUUUAZ2s6fd6hbw/2dqL6fdW8wljkCl43wCCkiAjehBPGRzgggiodE0afTri9vdRvEvNQvmUzSRQ+TGFQbUVELMQAMnliSSecYA16KA3CiiigAooooAKKKKACiiigAooooA5f/AIRTUZ5Le11HXPtmlW12t1FC9uftDMj70V5y5DKrYPCAkKASecpf/Dvw5d6pp99Bo+l20lpdm5lKWEe64+RhgkAfxMGyc8qPrXU0ULQNzkr3wXdXNvqOmQaskGianM8t1bm03TjzDmRUl34VWOeqMRuOCOMbT6MJPFFtq7TcW1nJbRw7em90YtnP+wBjH41p0ULS3l/lb8geu/8AXUKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigCGX7w+lMp8v3h9K5/wAY+KrXwb4ZudXvEMvljbFArYaaQ9FHX3JODgAntSbSV2NJt2Ru0VQ0HVP7b8O6dqvk+R9tto7jyt27ZvUNjOBnGeuBV+qaadmSndXCisjU9T1WLUFs9F0lLxxF5sk11cNbwqM4ChxG+5+CcY4HJPIznr4vkv7fS10PT1uL3UY5JRBdXHkrCkZCyFnVX6MQowDnPpzUjOnornv+EwtYvDQ1S8tbiOfzHtzYxIZZTOhYNGuPvcqx3cDaNxwM4fB4iur3wvpOp6dpT3FzqkUTx25kIji3pvJkkCnaoGedpycADJp/194G9RWZomrPqsNytzAtteWc5t7mFJfMVXADDa2BkFWU8gHnpVHU/EN/DqlzZaLpKai1jAs92XuvJIDZ2pGNjb3IUnBKjp83PA9NwWp0NFcxrnjrT9I0G11KCGe+a9hWe3hhQ5MZ2/O5xhFG9ck+uBk8V09O1hXQUVy//CX3Bma6TS1bRFvfsTXouf3ocP5ZfytmNgk+XO/PfbinX/ijULD7Tey6Lt0e1n8mW4luCk5G4KZEhKYZMnrvBIBIB4yhvQ6aiiigAooooAKKKKACiiigAooooAKKiubmGztZbm6lSGCFC8kjnCooGSSfSszwx4gHiXSXv0tJLRVuZoBHKfmwjlckYGCcZx26UdbB0ubFFFFABRRRQAUUUUAFFFFABRRRQAUVz9t4utr3xkdAtLeaQJbyyveFSse+N0Ro1JHzkF+SOARjk5xXi8XXMrNfHSlXRBeGzF2bn98WEnlb/K2Y2eZxnfnHO2jt5/8ADA9DqKK5m/8AFGoWH2m9l0Xbo9rP5MtxLcFJyNwUyJCUwyZPXeCQCQDxl2r+JdT05tRuYND83TdLXdczzXBhkkAUO5hTYRIAp6llBYEds0XHZ3sdJVhfuj6VUikWaFJYzlHUMp9Qatr90fSjYW4tFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAEMv3h9K8w+Jnhvxdqt9NqOiDS7qwt9LmhS0uhK0yyOrCR4lQYMhXCrknqeOa9Pl+8PpTKTVxxdmc18PINVtfh9o1vrsUUN1Faxp5caspRAoChw3IcDG4eua6Wiirk+Z3JSsrHJeMNau4rqHR7NNStIriPfc6naadPcmJM42R+WjASHnk8KOcE4FQKtroupaLqum6ffDRo7CWxMcVhMZoMsjITFt8zB2MCdpOSCeDmu0oqVp/Xy/Jjepzvhy0uI/Dt7NcW8lvLf3FxdLBIPnRXYlQw7NtwSOxOKpaTcXWifDjw7Hc6XezILOC3vkgVxcWqmLBYRqN5IbAIX5hkntXX0UbK3p+Fw639fxON8N2OpxWGor4fc6dZSXvmWZ1ezllldSuZSys6S8yZIaQ7uvGNtElzeeHdb1WW+srvUG1K3heGTT7KR0kmRCjIQN3lZ+UgucYJ+bg12VFJq6sNb3ON1LRbuy+EKaOkT3F3BZQwskKlyzKVzgDr0NdHew6tJdQNpt7ZW9up/fRz2byu/P8LCVQvHqG/pV+iqbvLmJSPPfIuxoUnhJtPvTdtqbMJxbP5HkG487zPOxs4Q4253bhjHeptS1ZdZ8SNa6va6tBpGn3A2W0ej3UgvpVIId3WMr5SnkKD8xGTwAD3lFJaO/9f1/XYfcKKKKACiiigAooooAKKKKACiiigDF8S6Ne63a20NjfQWqxXCzSpcWpnScLyqsA6HG7DdedoB4zVDwHZ6rZafqS6y0ZZ9TunjCWrwZBlYlvmdsq3VfQd2611NFC0/r0/wAgeqt/XX/MKKKKACiiigAooooAKKKKACiiigDn7q2nb4kabcrDIbdNLuo2lCHYrGWAhSegJCkgex9K5O/0ae+uLnRbSHWbXztVWZ7Nk3WKJ5yytcLN5Y+8AT5QkOHYjbgE16ZRTWlvL/O4PW/9dLf1/kcHqWrLrPiRrXV7XVoNI0+4Gy2j0e6kF9KpBDu6xlfKU8hQfmIyeAAXeJNU/tXW5dG1G21a30W3Km5MGk3M39oHGfLDxxkCIcBuctyvAyT3VFJaWAbEVaFGjBVSoKgqVIH0PI+lWl+6PpVerC/dH0oAWiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigBrIGOTmk8pfU0UUAHlL6mjyl9TRRQAeUvqaPKX1NFFAB5S+po8pfU0UUAHlL6mjyl9TRRQAeUvqaPKX1NFFAB5S+po8pfU0UUAHlL6mjyl9TRRQAeUvqaPKX1NFFAB5S+po8pfU0UUAHlL6mjyl9TRRQAeUvqaPKX1NFFAB5S+po8pfU0UUAHlL6mjyl9TRRQAeUvqaPKX1NFFAB5S+po8pfU0UUAHlL6mjyl9TRRQAeUvqaPKX1NFFAB5S+po8pfU0UUAHlL6mjyl9TRRQAeUvqaeBgAUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAH/9k=)

Let’s take a look at the data types for these columns. From these results, we can see that the date column is a string. The model cannot accept it as it is. It needs to be converted into a date-time format for it to work with the model.

![A screenshot of a computer

Description automatically generated with low confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFJhaGVtZWVuAAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADMjQAAJKSAAIAAAADMjQAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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PnXlxFbxbgu+Vwq5JwBk9ySAKloA4NPCt9f+CfDARXivdNgQtbPeTWe/dHtZTLF86Edeh6EEc5FxPCt3H4diWyt7ez1KC/W/EcuoT3kc0i8YeaRQ/zLxnadpwcHGD2FNkkSGJpJXVI0UszscBQOpJ7CgDGvLHUte8K6hp+qw2thcXcMkK/ZrhrhFDLgMSyIevbH41a0VtW+whNbtbO2mQBV+x3TzK4A6ktGmOe3P1qbTtV0/WLX7TpN/bX0G4r5trMsi5HUZUkZqS0vrS/hMthcw3MauyF4ZA4DKcFcjuDwRQBPRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHO+Kzrqi1bRvtn2YFzdf2d9n+09Pl2/aB5ZXrn+LpjvWJ4nzrXhvw7qNjr1/DbS3lpiQRQAvucYkYNEcMD2GFyehrrdU0DR9b8v8AtrSbHUfKz5f2u2SXZnrjcDjpVm4sLS7sWsru1gntHXY1vLGGjZfQqeMe1AHPaq2o2dxo2iR63dRtfSSiTUpIoDMdilgijy/LDH/cPCnvzWXPrmtppEtvZ6jHJcwa3Fp8eoTQKwmjJXcWVdqlgWKnbtGV7c11beHdEbSBpTaPYHTlORZm1TyQc5zsxt689Knj0ywhs4LSKyt0trcqYYViUJEV+6VXGBjtjpQBy+tXfiDw1oE4e+k1Jpr2GC2utkAuESQhWyCI4twbIXPHK5z0Oj4Ul11vtkWuW96kKMptZtQ+zefICPmDC3YpwehwDg9OMnduLeG7t5Le6hjnhlUpJHIoZXU9QQeCKyhoKaTYNB4Pt9J0V5JA8mNO3RvxjlI3j56c5oAPF9/d6Z4R1G806VYrqGLdE7IGCnI6g9a5jXJ9StbDxPpd/qcmoxNob3aNLDGhiYh1ZV2KPl4GN2SP7xrp7XT9Zmd4vEN7pOoWToQ0EOmPEWPGMl5nBHtt/GtKSxtJnkea1hkaWLyZGaMEun9w+q8njpzQByum3OqabrVpY3Gryagl1pb3LRvBGi2zIUClNoB2ncRhyx+Xr1p/hA+JL7TdH1jUdYS7jvLYPdWxgSNEyoKNHtXcWz97c2Dk4C8Cug03Q9J0aGSLR9LsrCOU5kS1t0iDnpyFAzVqCCG1t0gtokhhjUKkcahVUDoABwBQBJRRRQAUUUUAFFFFABRRRQBy/j2Kb+wUuYrt41guIS0BghljmzKg+YSIx46gqVIPepdfn1KTxJpGmadqLafFdx3DTyRwo74QKRtLggHJ6kEYzx0I0tU8PaLrbRtrWkWGotECIzd2ySlAeuNwOOgqe20vT7OO3S0sbaBLVSkCxQqohU9QuB8oPoKAPP8AWpNR1j4dRz3esXMMtpqa28ssMcI88JdqgkcMhAIC7vl2jPUY4rZ8TWN7DpmkWEmoHURPqaLLPqccZUjaxQOsSoGAcLheMnAzzmupOnWRs5bQ2dubabd5sPlLsfcSWyuMHJJznrmq8WgaPBpL6XBpNjFp8md9olsghbPXKAYP5UAcrf8AiLVl0y/028R5rlL1bKS/0mxmkVI2jDs/lL5jKwU7epG4qc9hb+Hl1YNp+o2mmW1zbwW9/LsSaylgCqTwBvVeeOR1HfFdRZWNpptmlpp1rDaW0f3IYIwiLznhRwKkigig3+REke9y77FA3MepOOpPrQA+iiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAOa8T+JdQ0PUtKt7HRbm/S8ufKd4mhGRsdtq75VIf5QckbcZ5zirOoeKI9Lh077XpeoC61FmSGzjRJJd4UttYq5QcDru2juQKm1/R5tWhtHs7tLS7srlbiCWSHzU3AFSGQMpIKsRwwpJNHubq80i8v7yJ7jT2kaQw25RJSyFeAXYrjOerUANt/ES3mjG+s9Mvp5llaB7JBGJkkUkMpJcRjGDzvwexORVY+NLNdLhu3sb8SS3hsTaCJWmjnGflIVivbqCRyDnGSJPFfhtvEtraxCa2UW83mmC9tftNvP8pGJIty7sZyOeCAeaoaT4Fj0qwtbWG7jCW+qHUQsNosScqR5aopwo549vU80AXR4xsl0S91C7tbu0exnFvPaTBPNWQldq5Vinzb1wd2OeSOcaNrqU8+nSXVzpN9ZOhOLaYxPI/pjy3ZeenJHviqLeH5449a+y3Nqz6rOJSt3aGaJF8tEKsgdd4IU9x171nW3gZrfwnqWjx30Fs1/J5mLK0MNtDwo2rDvOEbb8w3fNubkZoA0bXxXbOmof2nZ3ekSadEs08V55ZIjIOHBid1I+VhjOcjp0qW01y8urSef/hHNUh8tA8UcrWwa4z2Ued8p7/Pt/PisPS/h1a2cOrxzyWcSarbJbyxaXp62cce0th1UM3PzDqTyPTgdFpFtrNsrJrOpWd8oUCM29k0DDHUsTK4YnjoFoAzPB/iXUPEOlRXF/od1ZllZvOLQ+U5DEbVCyswPHcAcHnpT/DWr3N/d64dQN1B9luwq213FChtk8pG2honcODktknPOMcVLoWialocMlmupW0+npvNrGbNlljLMWG5/Mw4GSOFUnjmq+j+HdXs9T1OfVdVsL2DUzvnhg054SGEaoMMZnwMLyCDyeooAlsPF9tf3Vop0++tba/JFleTrGIrk4LDaFcuuVBI3quQPXio7HxtaX11aomnajFbXc720V5LEixGVd2Uxu3fwHDbdp9c0zTfCl7bvp0Oo6tHeWGkndZQpamOTIUqhlfewfCk9FXJ5NS2/hTyNN0u0+27v7PvmvN3lY8zJc7cZ4+/156dKALNr4jF9rM1jY6ZeXENvMYJ71WhEUUgGSpBkEncDhCOfTmtmuYn8Jz3niyHWbmfTUMEodJLXTjHdsoBAjecyncnPI2jPtXT0AFFFFABRRRQBz/jDVbvStLiezW7iD3ESyXdvFDKIVMighlkdSQ2cZUEjOcVa1jxBFpF5aWf2K8vbq8EhgitUUligBIJZlVeD1YgcdckAweKtF1PXrBbPT9StLGFmVpfPsmnZirqy4IlQAZXnIOfapho9zNqml6hf3kUlxYxSpJ5NuY0lL7eQC7FcbemT9aAMfWPG88Hha21fRtHurozXKQSRv5Sm3bzhG6ODIvzZJA2lhnknHNWNb8S3NnoltK1pcaRc3l0LZBdRpO8YwWLBIXcOxCkKoJJJHHapH8JbvC1zpAvSry3b3cdx5X+rczecuVz8wBwDyM47VPdaPqd/psAvNStf7TtbgT291BZMkSkAjDRGRiQVZgfnHXjFAFSy8QW1r4ZuLqHUr3WJ45vJVL6Bbe4MzYCRGMRx7ckjqo4OelWPB9zqdxpVyut3a3d3BezQtKsaoMBuAAOw6DPPqaiXwZbXaSS67cS3V9Lci5aeyllsgrhPLGwRybgAueCzck/QWfDnhi38Ni8Fvc3dx9quGmP2i6ll2gnIH7x259W4J70AbdFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUABOATWVa+IrC50ay1NmkggvnWOESJ8xZjhQQucZP4VieK7a2m8Q2ja7o82saX9ldYbdLNrpBc7hgsgBVSV4DtgD5uRnnDn8L20/w18PPqfhxbifTpYTLbyWKyzRQ+Z86BMEkY6qucgcA0AemUVxmrLpmm+GbHX9E09rK20WVrgWyWTWreScrKoiZVIyCWAwMlRWbrlhDYeH9Gl1mOeV73WFur1II5JHYurnZtjBZgF2pgA5UYPGaAPRaK81uNGu/wDhF9VXQNOax0qfUYZorFrJxutwqCX/AEYMjbSQSY/lLAHg7sHb8B2As7fUGhkC20ki7LOLRZ9MihIXkpFKSfm4JK4GR65oA6+isfwrFZQ+HYE0zTbrTLYNJttbxWWRDvOSQSTyckc9CKk8TQ31x4X1KLSS63r27iEo21t2OgPY+h7GgDQuZ1tbWW4kBKRIXYL1IAzUen3sepabbXsAZYrmJZUDjDAMMjOO/NcNp+nWj30knhPRLjSrT+zZo71HsHtBPKwHljayqZHGG+fB64zzUXg7S7VL7QpdI0a6spreyMeq3N1ZS27SkooVGaUKZTuGQfmCheoyMgHdm/xrC6f9kujugM32kR/uRhgNhb+9znHpVuuOttE0rRviZaf2PplnYedpdw0v2W3WLzCJYsFtoGep6+tc7oGjXkfim1k1Bha6rHeO9xcR+Hrnzblfm+R70SGNoyuMA8DCjCkAAA9TqsmoW0mpTaekubqGNJZI9p+VWJCnOMclT+Vcjp9ppsfiq6fxHok1zrLXzNaag+mSXCLFn91smCMsQUcEErg5OOcmC68P6Bp3xFnvdQ8MRTRXkELW9xDo5uAs4kcuzFEbY3zIdzYzjrxQB31FFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAUb/R7LVJ7eW+SWX7O+9I/PdYywIILRghXwQCNwOCMipruwtr57drqPebaYTRHcRtcAgHjrwTwasUUAFFFFABRRRQAUEBlIYZB4IPeiigDN03QNP0q5luLSOZp5htaW4uZJ2C5ztUyMxVc/wjA9q0qKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAP/2Q==)

Using the Pandas to\_datetime() function, we will convert the date column from a string to a date-time format.



We need to drop the store\_nbr column. Besides, for this data to work with the Prophet model, we only need two columns, i.e, a ds and y column. We need to rename our date column to ds and the transactions column to y.

![A screenshot of a computer

Description automatically generated with medium confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFJhaGVtZWVuAAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADNTkAAJKSAAIAAAADNTkAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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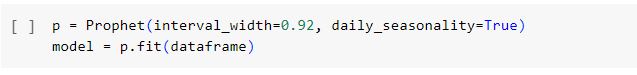
We now have only two columns. As mentioned above, we need to rename the data column to ds and transactions columns to y.

![A screenshot of a computer

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confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFJhaGVtZWVuAAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADOTgAAJKSAAIAAAADOTgAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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We begin by creating an instance p of the Prophet class. We use the interval\_width argument to estimate the uncertainty interval from the number of samples used. We’ve set ours to 0.92. Theargument daily\_seasonality=True will fit daily seasonality for a sub-daily time series. It will default to weekly and yearly seasonalities if you don’t set this parameter.

You can play around with these values to check how it affects the results obtained after training. We can now train our model.

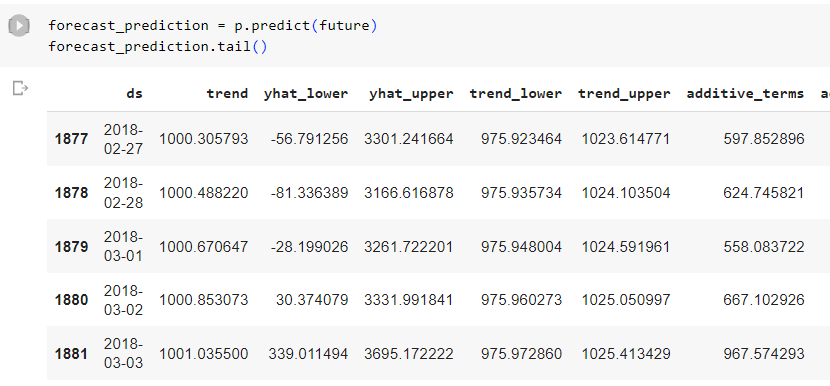


Let’s go ahead and make predictions.

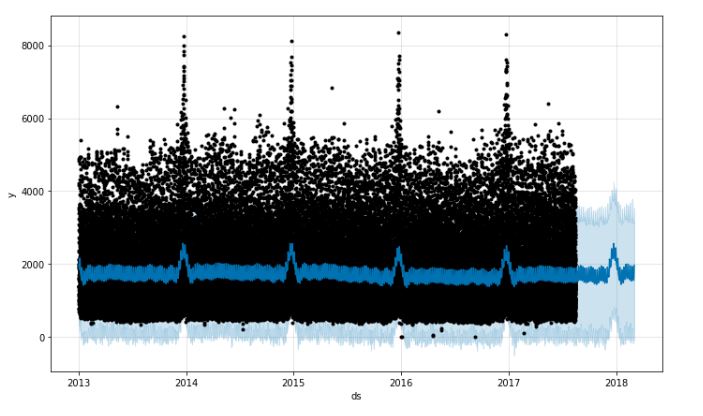
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confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFJhaGVtZWVuAAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADODYAAJKSAAIAAAADODYAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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To predict, we use the predict() method and pass in the future dataframe as shown:



We can visualize these predictions.



![A picture containing diagram, plot, line, text

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##### **Lab Tasks**

**Task # 1:**

You work for a major airline company, and your team is responsible for analyzing historical data on the number of monthly airline passengers in the United States. The dataset contains the number of passengers recorded over several years. Your task is to perform time series analysis using the Prophet model and generate a forecast for the next 6 months. Additionally, provide insights into any observed trends, seasonality, and forecasted passenger numbers that can be useful for the airline company's planning and decision-making.