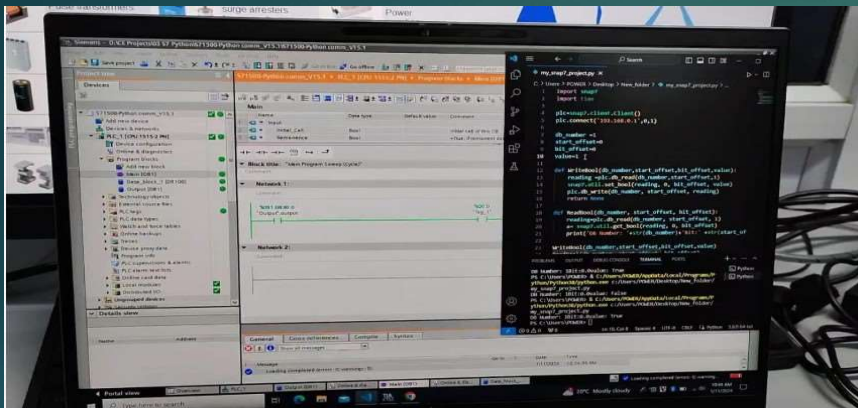
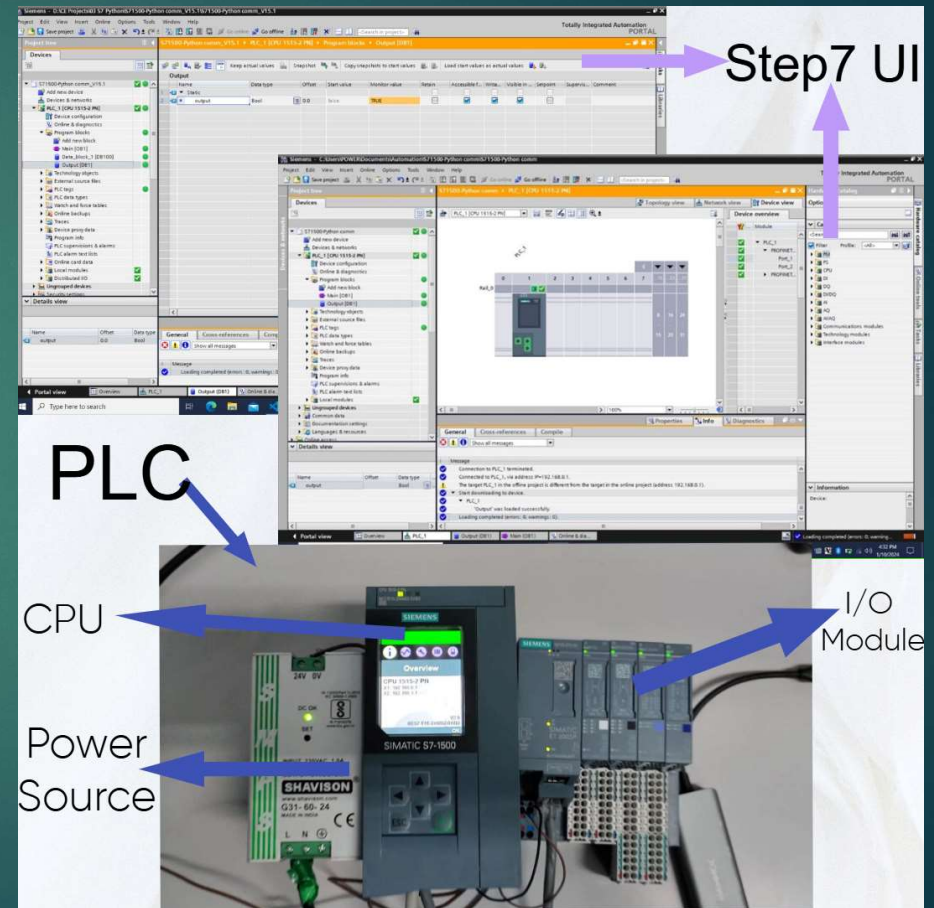
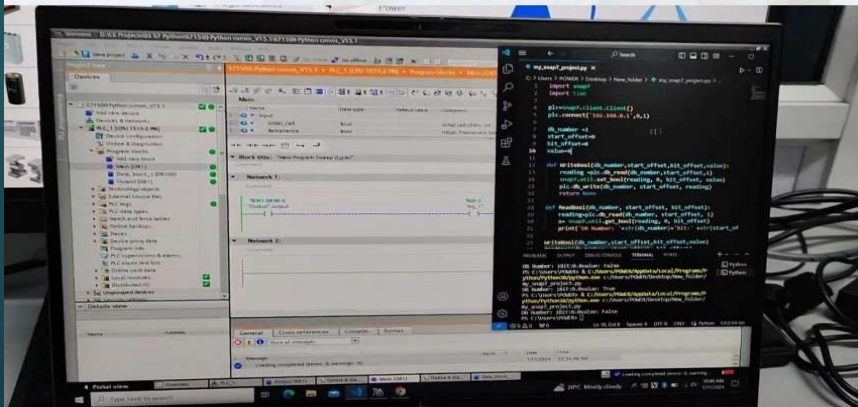


# PLC (Siemens S7-1500) Programming using Python and Snap7 Library



PLC Programming

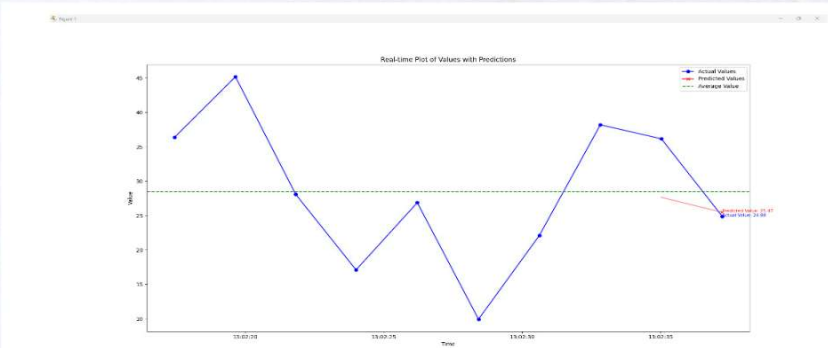


# Real-Time Integration of Air Pressure Sensor with PLC (Siemens S7-1500) and Machine Learning Model

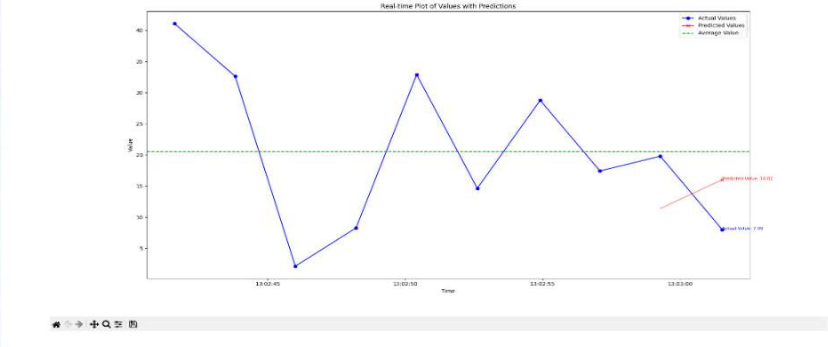
Captured real-time sensor data, stored in MS SQL Server, and developed a model for predicting air pressure.

SELECT \* FROM TBL

	Value	Time_1
7	42	2024-01-24 13:00:56.337
8	34	2024-01-24 13:00:58.493
9	23	2024-01-24 13:01:00.653
10	28	2024-01-24 13:01:02.880
11	45	2024-01-24 13:01:05.080
12	21	2024-01-24 13:01:07.323
13	12	2024-01-24 13:01:09.547
14	2	2024-01-24 13:01:11.827
15	2	2024-01-24 13:01:13.993
16	6	2024-01-24 13:01:16.137
17	14	2024-01-24 13:01:18.330
18	40	2024-01-24 13:01:20.487
19	19	2024-01-24 13:01:22.667
20	26	2024-01-24 13:01:24.890
21	34	2024-01-24 13:01:27.043
22	2	2024-01-24 13:01:29.240
23	9	2024-01-24 13:01:31.433
24	28	2024-01-24 13:01:33.627
25	11	2024-01-24 13:01:35.820



Air Pressure Forecasting



# Data Visualization using Tableau (EMS)

