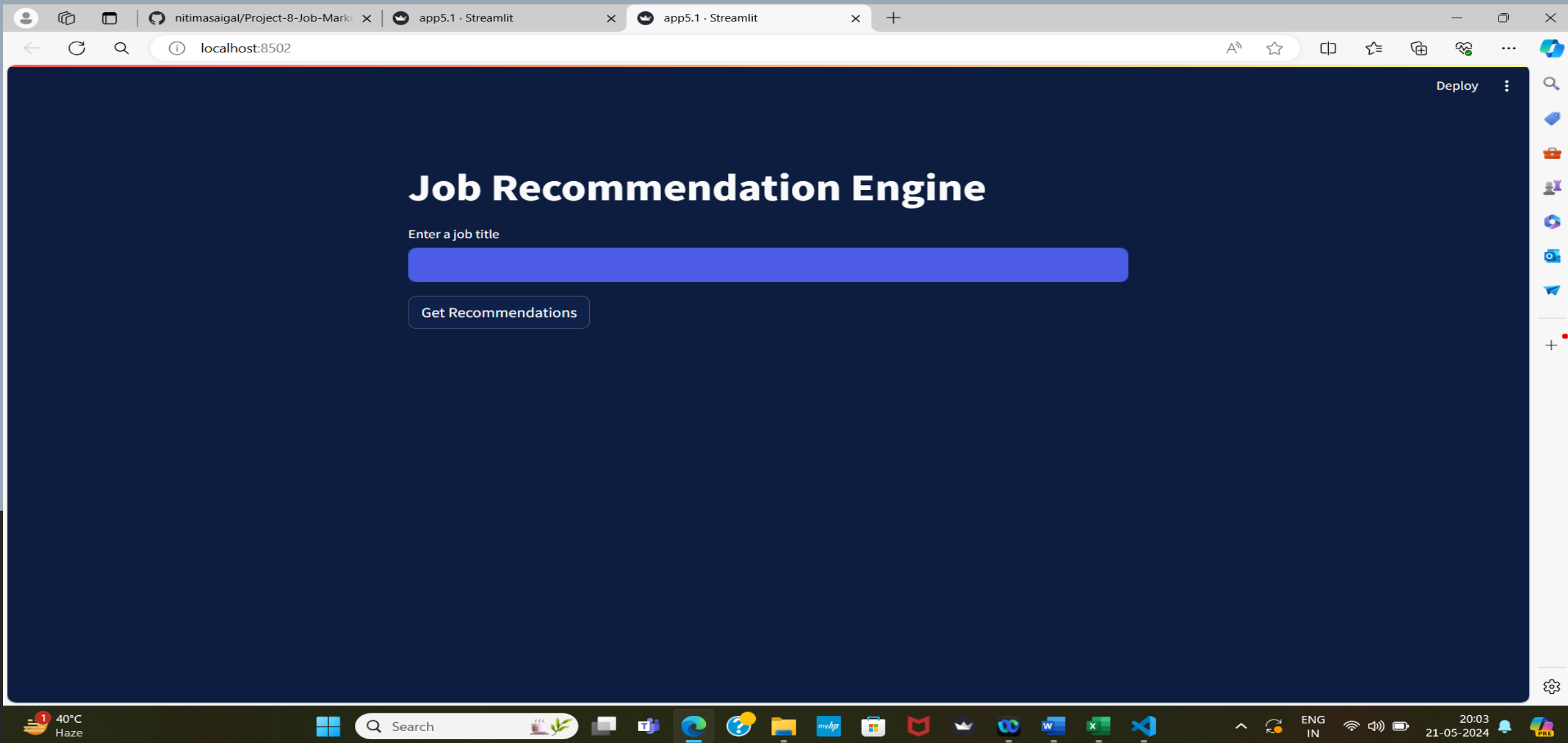




Dashboards for Job Market Analysis and Recommendation System

Task 5: Create a job recommendation engine based on current job postings



The screenshot displays a web browser window with the address bar showing 'localhost:8502'. The browser tabs include 'nitimasaigal/Project-8-Job-Mark' and two instances of 'app5.1 - Streamlit'. The main content area has a dark blue background and features the title 'Job Recommendation Engine' in large white text. Below the title is a text input field with the placeholder 'Enter a job title' and a blue button labeled 'Get Recommendations'. In the top right corner of the application area, there is a 'Deploy' button and a menu icon. The Windows taskbar at the bottom shows the system clock at 20:03 on 21-05-2024, along with various application icons and system status indicators like temperature (40°C) and network connectivity.

localhost:8502

Job Recommendation Engine

Enter a job title

Get Recommendations

Deploy

40°C Haze

Search

20:03 21-05-2024

Job Recommendation Engine

Enter a job title

Data Scientist

Get Recommendations

	company	job
0	ABC Corp	Data Engineer

Job Recommendation Engine

`st.cache` is deprecated. Please use one of Streamlit's new caching commands, `st.cache_data` or `st.cache_resource`.

More information [in our docs](#).

Loaded job data:

	job_id	job_title	company	location	description	salary
0	1	Software Engineer	ABC Corp	United States	Develop software applications.	120,000
1	2	Data Scientist	XYZ Inc	Germany	Analyze data and build models.	130,000
2	3	Web Developer	Data Works	Canada	Design and develop websites.	115,000
3	4	Appointment Setter	Google	India	Setting appointments	110,000
4	5	Customer Service	Microsoft	Portugal	Custome Servicing	100,000

Enter a job title

Get Recommendations

2	3	Web Developer	Data Works	Canada	Design and develop websites.	115,000
3	4	Appointment Setter	Google	India	Setting appointments	110,000
4	5	Customer Service	Microsoft	Portugal	Custome Servicing	100,000

Enter a job title

Data Scientist

Get Recommendations

Job title entered: Data Scientist

Filtered recommendations:

	job_id	job_title	company	location	description	salary
1	2	Data Scientist	XYZ Inc	Germany	Analyze data and build models.	130,000

	job_id	job_title	company	location	description	salary
1	2	Data Scientist	XYZ Inc	Germany	Analyze data and build models.	130,000

Task 6: Track changes in job market dynamics over months

A dashboard that updates monthly with new trends in the job market

localhost:8501

Deploy

Data loaded successfully

Published date converted successfully

Year and month extracted successfully

Monthly job counts calculated successfully

Processed data:

	year_month	job_count
0	2023-11	1
1	2023-12	10
2	2024-01	96
3	2024-02	101,887
4	2024-03	142,834

Job Market Dynamics Dashboard

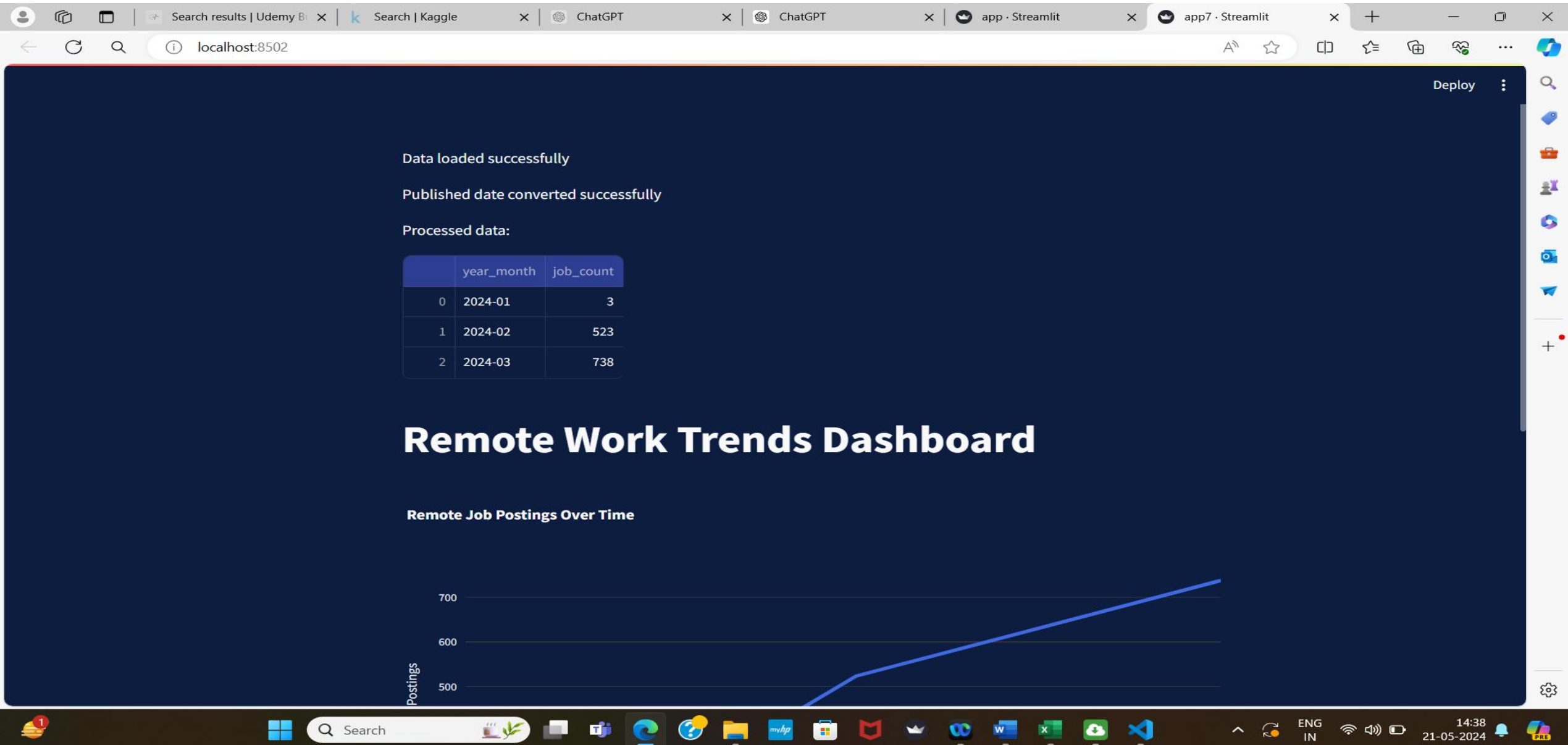
Job Postings Over Time

14:25 21-05-2024



Task 7: Investigate trends in the remote work landscape

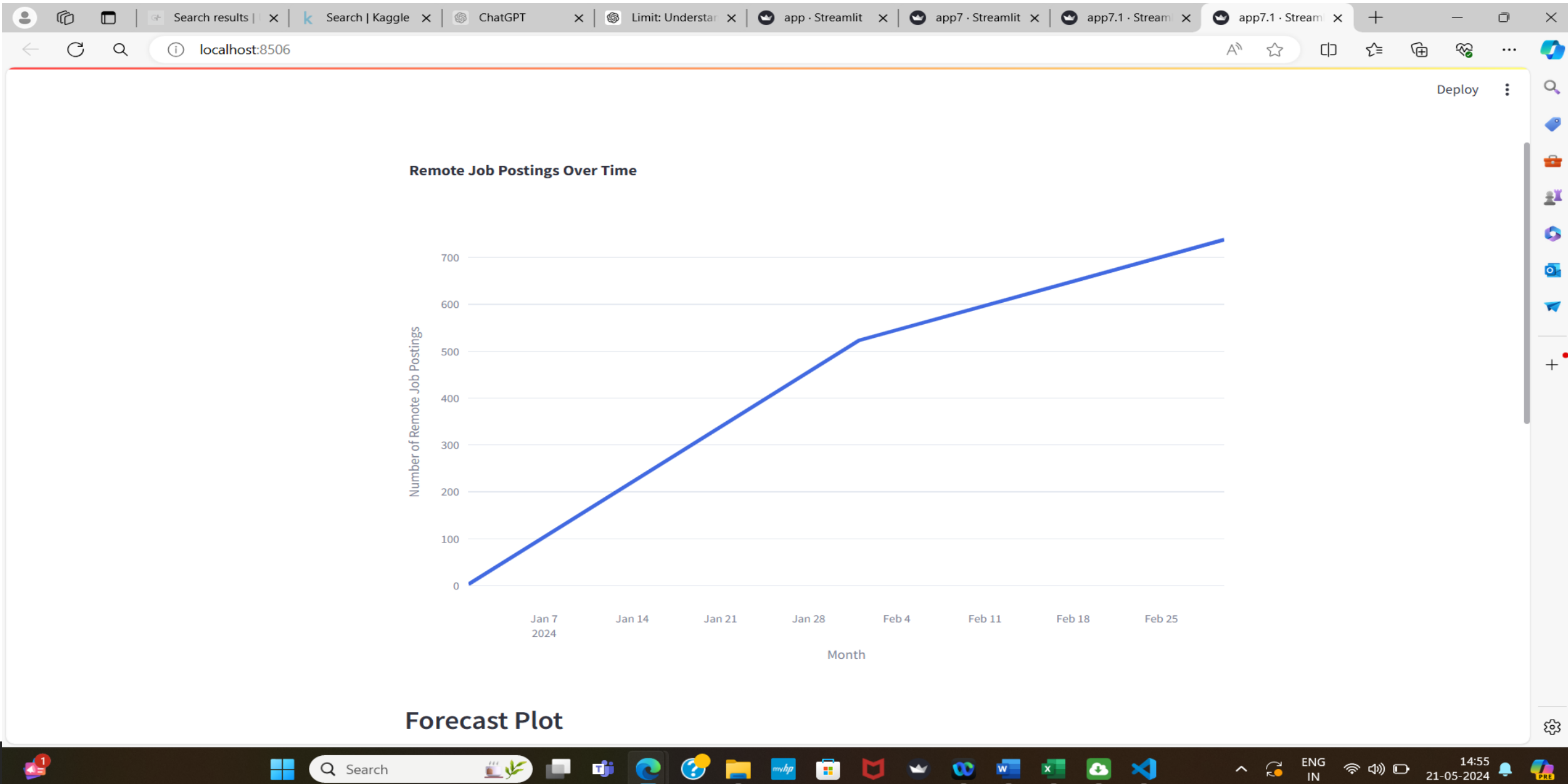
To analyze trends and shifts towards remote work



Remote Work Trends Dashboard

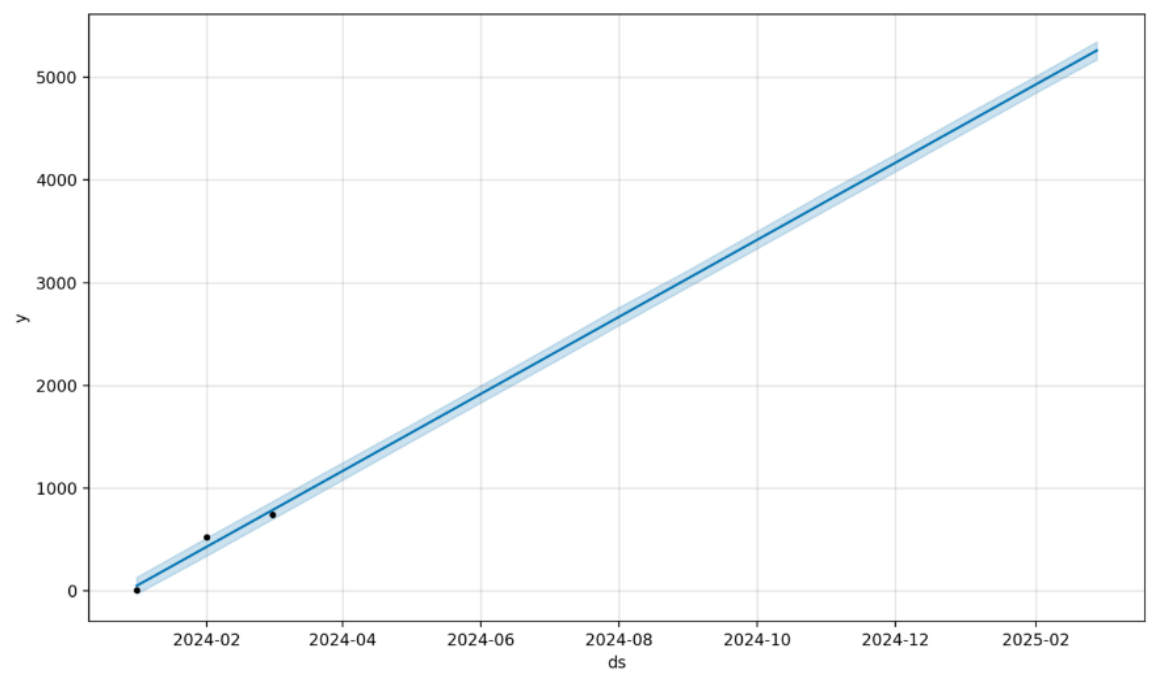
Remote Job Postings Over Time

Task 7.2: A comprehensive report on remote work trends with data-backed forecasts



Deploy

Forecast Plot



Summary and Insights

- The number of remote job postings has shown [increase] over the past months.
- According to the forecast, the trend is expected to [continue] in the coming year.
- Key factors influencing this trend include factors such as industry changes, economic conditions, etc.

Refresh Data

THANKYOU

NITIMA SAIGAL