# INTER – WEAVING

MAT 259 | Assignment 1 | Winter 2024 | Nefeli Manoudaki

Description:

This study explores the intersection of Textile Art and Artificial Intelligence within the Seattle Public Library (SPL).

Concept Description:

After the sudden expansion of AI in the creative field, some artist expressed their concern about the traditional art forms. This exploration aims to understand how traditional art forms like textile art are related or influenced by modern technological fields like AI, as reflected in the Seattle library checkout patterns.

Collecting the Data:

Data were extracted from the SPL database using the Dewey Decimal Classification system and using the specific keyword searches that define each of my categories. "Artificial Intelligence" and "Textile Art".

The focus was on checkout history over the last three years, analyzing the number of checkouts on each topic per month.

The script code for each topic is divided into two searches. The first part focuses on consolidating the checkout data for the selected keyword or certain Dewey Decimal classifications, then categorizing and combining the Subject information, and later quantifying and organizing by the checkout value.  The second part is aggregating the checkout counts across all relevant titles, grouping the results by year and month, and counting the total checkout in each grouped period.

MySQL Query:

```
SELECT
    o.title,
    o.itemtype,
    o.deweyClass,
    GROUP_CONCAT(DISTINCT s.subject
        SEPARATOR '; ') AS subjects,
    COUNT(*) AS checkout_count
FROM
    spl_2016.outraw o
        INNER JOIN
    spl_2016.subject s ON o.bibNumber = s.bibNumber
WHERE
    (LOWER(o.title) LIKE '%artificial intelligence%'
        OR LOWER(o.title) LIKE '%creative ai%')
        AND o.cout >= '2021-01-01'
        AND o.cout < '2024-01-01'
GROUP BY o.title , o.itemtype , o.deweyClass
ORDER BY checkout_count DESC;

SELECT
```

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```
    YEAR(cout) AS year,
    MONTH(cout) AS month,
    COUNT(*) AS total_checkout_count
FROM
    spl_2016.outraw
WHERE
    (LOWER(title) LIKE '%artificial intelligence%'
        OR LOWER(title) LIKE '%creative ai%')
        AND cout >= '2021-01-01'
        AND cout < '2024-01-01'
GROUP BY year , month
ORDER BY year , month;
```

---

```
SELECT
    o.title,
    o.itemtype,
    o.deweyClass,
    GROUP_CONCAT(DISTINCT s.subject
        SEPARATOR '; ') AS subjects,
    COUNT(*) AS checkout_count
FROM
    spl_2016.outraw o
        INNER JOIN
    spl_2016.subject s ON o.bibNumber = s.bibNumber
WHERE
    (LOWER(title) LIKE '%textile%'
        OR deweyClass IN ('745' , '729', '730', '746'))
        AND o.cout >= '2021-01-01'
        AND o.cout < '2024-01-01'
GROUP BY o.title , o.itemtype , o.deweyClass
ORDER BY checkout_count DESC;

SELECT
    YEAR(cout) AS year,
    MONTH(cout) AS month,
    COUNT(*) AS total_checkout_count
FROM
    spl_2016.outraw
WHERE
    (LOWER(title) LIKE '%textile%'
        OR deweyClass IN ('745' , '729', '730', '746'))
        AND cout >= '2021-01-01'
        AND cout < '2024-01-01'
GROUP BY year , month
ORDER BY year , month;
```
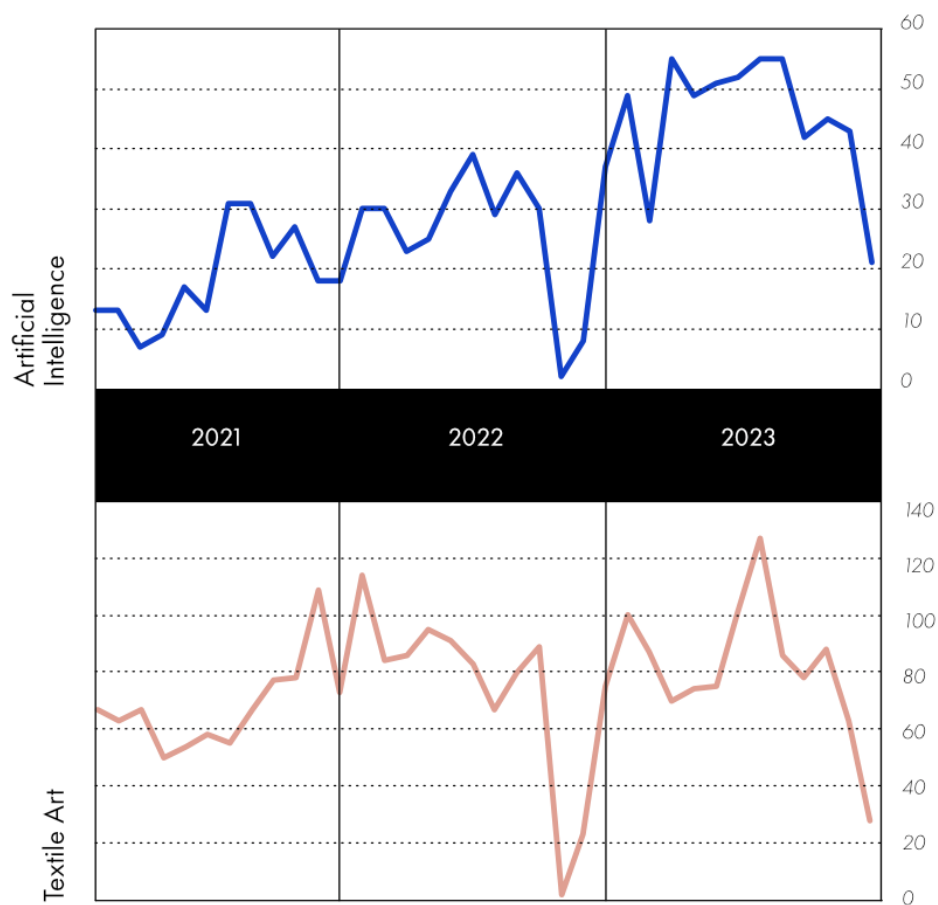
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<u>Discussion/Analysis of Results:</u>

The data indicated a cleared disparity in the volume of available resources for Textile Art compared to artificial Intelligence, suggesting a broader range of choices for the former. Both categories exhibited a similar pattern, including a significant drop in checkouts towards the end of 2022. This drop could indicate either a data recording error or a temporary closure of the library. A peak in interest for Artificial Intelligence was observed at the beginning and middle of 2023. Interestingly, this peak coincided with a dip in the Textile Arts category, after which both categories returned to their usual patterns. The observed declining trend might be attributable to data recording errors.

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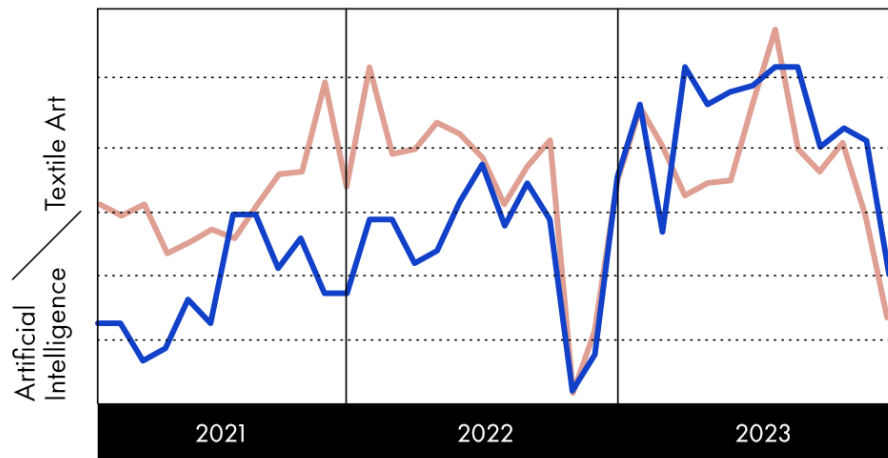


The analysis suggests a dynamic relationship between the interest in traditional and modern technological fields. The fluctuations in checkout patterns could reflect shifting public interests, possibly influenced by external events or technological advancements. The observed data inconsistencies highlight the importance of accurate data recording for reliable trend analysis.