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## 1 Column Name Standardization: annotated\_pg → annotated\_value

### 1.1 Issue

**Problem:** The codebase used inconsistent naming for the annotated prediction column: - Some code used annotated\_pg (paragraph-level naming) - Other code used annotated\_value (more generic and accurate)

**User Report:** “In the next block of the notebook, we fail trying to output annotated\_pg. I think that is now annotated\_value (which is a better name). Please fix all the references to annotate\_pg in the notebook, and python files under the current directory.”

### 1.2 Root Cause

Historical naming inconsistency: - Original code was written for paragraph-level classification and used annotated\_pg - V2 API supports both line-level and paragraph-level, making annotated\_pg misleading - Output formatters use annotated\_value which is more generic and accurate

## 1.3 Solution

Standardized all references to use `annotated_value` throughout the codebase.

### 1.3.1 Why `annotated_value` is Better

1. **Generic:** Works for both line-level and paragraph-level data
2. **Accurate:** The column contains the annotated text value, not specifically paragraphs
3. **Consistent:** Matches the V2 API naming conventions
4. **Clear:** Describes what the column contains (a value with annotations)

## 1.4 Files Modified

### 1.4.1 1. `jupyter/ist769_skol.ipynb`

**Changed cells:** - Cell id="73ecd132-4946-47cf-a67b-364335eb768b":  
Display predictions - Cell id="db747262-98fb-4166-abb0-e55966e538c9":  
Filter for "nov." in nomenclature

**Before:**

```
predictions.select("predicted_label", "annotated_pg").where('predicted_label = "  
predictions.select("*").filter(col("annotated_pg").contains("nov.")).where("pred
```

**After:**

```
predictions.select("predicted_label", "annotated_value").where('predicted_label  
predictions.select("*").filter(col("annotated_value").contains("nov.")).where("p
```

### 1.4.2 2. `skol_classifier/classifier.py`

**Changed locations:** - Line 332: Column name in paragraph extraction - Lines 360-363: Aggregation expressions - Line 428: Column name in annotation formatting - Lines 456-459: Aggregation expressions - Line 821: Column name in CouchDB save - Lines 933-936: Aggregation expressions

**Before:**

```
"annotated_pg",  
...  
expr("sort_array(collect_list(struct(row_number, annotated_pg))) AS sorted_list"  
.withColumn("annotated_pg_ordered", expr("transform(sorted_list, x -> x.annotate  
.withColumn("final_aggregated_pg", expr("array_join(annotated_pg_ordered, '\n')"
```

**After:**

```

"annotated_value",
...
expr("sort_array(collect_list(struct(row_number, annotated_value))) AS sorted_li
.withColumn("annotated_value_ordered", expr("transform(sorted_list, x -> x.annot
.withColumn("final_aggregated_pg", expr("array_join(annotated_value_ordered, '\n

```

Note: final\_aggregated\_pg name was kept for backward compatibility with CouchDB save methods.

### 1.4.3 3. COUCHDB\_INTEGRATION.md

**Changed documentation:** - Line 131: Updated parameter description

**Before:**

- ``predictions``: DataFrame with predictions (must include ``annotated_pg`` column)

**After:**

- ``predictions``: DataFrame with predictions (must include ``annotated_value`` column)

## 1.5 Column Naming Summary

After this change, the column naming is:

Column Name	Purpose	Used In
value	Raw text content	Input data (lines or paragraphs)
annotated_value	YEDDA-formatted annotation	Output from formatters
predicted_label	Predicted class label	Model predictions
final_aggregated_pg	Aggregated annotations for save	CouchDB save operations

## 1.6 Impact

### 1.6.1 Before (Inconsistent)


```

# Some code expected annotated_pg
predictions.select("annotated_pg").show() # ❌ Column doesn't exist

# Other code used annotated_value
formatter.format(predictions) # Returns annotated_value column

```

### 1.6.2 After (Consistent)

```
# All code uses annotated_value
predictions.select("annotated_value").show() #  Works

formatter.format(predictions) # Returns annotated_value column
```

## 1.7 Example Usage

```
from pyspark.sql import SparkSession
from skol_classifier.classifier_v2 import SkolClassifierV2

spark = SparkSession.builder.getOrCreate()

classifier = SkolClassifierV2(
    spark=spark,
    input_source='files',
    file_paths=['data/*.ann'],
    line_level=True,
    output_format='annotated',
    model_type='logistic'
)





results = classifier.fit()
predictions = classifier.predict()

# Show annotated values
predictions.select("value", "predicted_label", "annotated_value").show(10)

# Filter by content in annotations
nomenclature = predictions.filter(
    col("annotated_value").contains("nov.")
).where("predicted_label = 'Nomenclature'")

nomenclature.count()
```

## 1.8 Related Issues Fixed

This fix resolves: -  Consistent column naming across codebase -   
Notebook cells that reference annotated predictions -  Documenta-  
tion accuracy -  Confusion between line-level and paragraph-level  
naming

## 1.9 Notes

- The `final_aggregated_pg` column name is kept for CouchDB operations for backward compatibility
- All user-facing code now uses `annotated_value`
- The change is purely cosmetic and doesn't affect functionality
- Old code referencing `annotated_pg` will need to be updated to use `annotated_value`

## 1.10 Migration Guide

If you have existing code that uses `annotated_pg`, update it:

### Before:

```
# Old code
df.select("annotated_pg")
df.filter(col("annotated_pg").contains("text"))
df.withColumn("new_col", col("annotated_pg"))
```

### After:

```
# New code
df.select("annotated_value")
df.filter(col("annotated_value").contains("text"))
df.withColumn("new_col", col("annotated_value"))
```