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## Data Article

# A dataset for predicting Supreme Court judgments in Nigeria



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## ARTICLE INFO

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## ABSTRACT

It has been widely argued among researchers that the application of big data analytics promises to reduce human bias and provide a scientific and evidence-based approach to the judicial process. In this dataset, historical data consisting of appeal cases presented at the Supreme Court of Nigeria (SCN) were collected from an online repository (Primsol Law Pavillion). A total of 5585 appeal cases brought before the SCN were collected from the archive. The dataset consisted of both criminal and civil appeal cases brought before the SCN. Variables that are related to court case proceedings were identified from related literature, verified by legal experts and used as a basis for generating an electronic structured version of the dataset stored as a spreadsheet file from the unstructured data. From the collected data, thirteen input variables were identified with one output/decision variable. The distribution of the numerical variables was presented as a descriptive statistical summary in terms of the minimum, maximum, mode, mean and standard deviation. The developed dataset can assist researchers to build predictive systems by training their models. Various feature extraction techniques can also be applied on the dataset to remove irrelevant or redundant features for increased performance of

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such classifiers that are needed to predict the outcome of legal cases.

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# Specifications Table

Subject Computer Science Specific subject area Artificial Intelligence Type of data Table A thorough review of the literature was done to identify suitable features found in How the data were acquired typical court proceedings. These features were verified by highly experienced legal professionals following which data containing information about the features were collected. Data format Raw: csv file Description of data collection The dataset consisted of features extracted from both criminal and civil appeal cases of SCN. The data collected from the archive consist of case files that were stored as text-based documents in the .docx format thus presenting the data as an unstructured dataset. Furthermore, the dataset was then converted into a structured format on a spreadsheet file. A total of 14 variables were identified (13 input variables and 1 output/decision variable). The dataset consist of previous criminal and civil appeal cases and their judgment which were delivered by the SCN between 1962 and 2022. A total of 5585 appeal cases brought before the SCN were collected from the archive. Data source location · Institution: Supreme Court of Nigeria · City/Town/Region: Abuja · Country: Nigeria The primary dataset was provided by the Primsol Law Pavillion who owns an independent online archive of court cases which can be publicly accessed via subscription. Data accessibility Repository name: Mendeley doi:10.17632/ky6zfyf669.1 Direct URL to data: https://data.mendeley.com/datasets/ky6zfyf669/1

## 1. Value of the Data

- The dataset consist of information about approved and rejected appeal cases that were presented at the Supreme Court of Nigeria (SCN). The data can be useful in developing predictive systems which can provide effective decision support needed in facilitating the efficient delivery of appeal cases brought before the SCN.
- The data will prove useful to data scientist and machine learning enthusiast for the application of supervised and unsupervised machine learning algorithms which can reveal previously unseen patterns and relationships between identified variables.
- The dataset can be useful to lawyers and machine learning experts for the development of classification models which will aid in decisions affecting the outcome of appeal cases.
- Algorithmic decision predictors which are an important part of the dataset have the tendency to improve the predictability and consistency of judicial and decision making as demanded by the principle of equity.

## 2. Objective

The main goal of generating the dataset is to provide a means via which the judiciary process is improved in Nigeria. The information contained in the dataset can provide a means for assessing the underlying relationship that exists between the identified factors and the outcome

of the judicial process. The data can be used to support the decision-making process which may affect the outcome of an appeal case brought before the SCN. The ability to determine the potential judgment of a case based on the information provided could help assist a lawyer in identifying the best possible strategy to be applied. The analysis of the data by lawyers can help in understating the underlying relationship that lies among variables and on the determination of the outcome of judgments. The utilization of the data by lawyers can reduce the time and money spent in searching through voluminous texts for the purpose of generating the exact and accurate information needed to understand the distribution of certain elements of court cases.

# 3. Data Description

Technology has played a vital role in creating a foundational basis for the adoption of artificial intelligence (AI) [1]. Introducing AI to the justice system promises to improve procedural and administrative efficiency, aid in decision making processes for judges, lawyers and litigants, and further predict outcomes consistent with past precedents [2–4]. [5,6] are few of the researchers who have explored this area.

The dataset named appeal\_cases.csv consists of previous criminal and civil appeal cases and their judgment which were delivered by the Supreme Court of Nigeria between 1962 and 2022; a period of 60 years. The secondary dataset was provided by the Primsol Law Pavillion who owns an independent online archive of court cases which can be accessed via subscription. A total of 5585 appeal cases brought before the SCN were collected from the archive. The data collected from the archive consists of case files that were stored as text-based documents in the .docx format thus presenting the data as an unstructured dataset. The unstructured dataset was converted into a structured format and then presented on a spreadsheet file. The dataset consist of 14 variables that were painstakingly extracted hence giving it its unique and distinct nature.

Table 1 presents the various categories of the offence and respective sentence for each of the appeal cases. The table also shows the numerical value that was used to represent the various categories of offence and sentences presented in the collected dataset. Table 2 presents the categorization and transformation of the district of trail and appeal. The states reveal the state to which the cities belong to while the senatorial district is composed of a number of states.

| Table 1                                  |  |
|--|--|
| Categorization of offences and sentences |  |

| Coded Value | Offence                             | Sentence                     |  |  |  |
|-------------|-------------------------------------|------------------------------|--|--|--|
| 0           | Wrongful accusations                | Fine                         |  |  |  |
| 1           | Dispute (e.g., civil, land etc.)    | Prison term                  |  |  |  |
| 2           | Court order violation               | Prison term or Fine          |  |  |  |
| 3           | Corruption/Abuse of office          | Prison term with hard labour |  |  |  |
| 4           | Murder/Manslaughter                 | Suspension from Office       |  |  |  |
| 5           | Libel                               | Death                        |  |  |  |
| 6           | Unlawful Possession                 | Payment for damages          |  |  |  |
| 7           | Trespassing                         | Appeal granted               |  |  |  |
| 8           | Civil Petition                      | Appeal dismissed             |  |  |  |
| 9           | Theft/Break-in and entry            | Other sentences              |  |  |  |
| 10          | Unlawful termination of appointment |                              |  |  |  |
| 11          | Armed robbery                       |                              |  |  |  |
| 12          | Violation of human rights           |                              |  |  |  |
| 13          | Rape/Sexual abuse                   |                              |  |  |  |
| 14          | Law of tort                         |                              |  |  |  |
| 15          | Election petition                   |                              |  |  |  |
| 16          | Conspiracy                          |                              |  |  |  |
| 17          | Claim for recovery/relief           |                              |  |  |  |
| 18          | Fraud/Impersonation                 |                              |  |  |  |
| 19          | Damage of Property                  |                              |  |  |  |
| 20          | Other offences                      |                              |  |  |  |

**Table 2** Categorization of district of trial and appeal.

| States  | Senatorial District | Integer Value |
|---|---------------------|---------------|
| Benue, Kogi, Kwara, Nasarawa, Niger, and Plateau          | North-Central       | 1             |
| Adamawa, Bauchi, Borno, Gombe, Taraba, and Yobe           | North-East          | 2             |
| Jigawa, Kaduna, Kano, Katsina, Kebbi, Sokoto, and Zamfara | North-West          | 3             |
| Akwa-Ibom, Bayelsa, Cross-River, Delta, Edo, and Rivers   | South-South         | 4             |
| Abia, Anambra, Ebonyi, Enugu, and Imo                     | South-East          | 5             |
| Lagos, Ogun, Oyo, Osun, and Ogun                          | South-West          | 6             |
| Federal Capital Territory                                 |                     | 7             |

Each senatorial district was coded with an integer value that was used to replace the categorical values of each feature. Table 3 describes both the names of the dataset variables and what the values of the variables also mean.

**Table 3** Dataset description.

| o a case c | acoemption.                  |   |  |
|------------|------------------------------|---|--|
| S/N        | Variable Name                | Variable Description  | Remarks (all variables were stored using<br>non-negative numeric values however<br>the value -1 was used to identify missing<br>values in the dataset) |
| 1          | Appeal district              | the senatorial district of the appeal court;  | Stored using the values 1 to 7; each representing the name of the senatorial district.   |
| 2          | Trial district               | the senatorial district of the trial court  | Stored using the values 1 to 7; each representing the name of the senatorial district.   |
| 3          | Offence                      | conducts or omissions that violate and are punishable under criminal law  | Stored using the values 1 to 20; each representing the name of the offence.  |
| 4          | Sentence                     | formal judgment of a convicted<br>defendant in a criminal case setting the<br>punishment to be meted out          | Stored using the values 1 to 9; each representing the type of sentence.  |
| 5          | Number of complainants       | the number of person(s) that reports wrongdoing to law enforcement  | Stored using a non-negative integer value, -1 represents missing values.   |
| 6          | Number of male               |   |  |
| O          | complainants                 | the number of male person(s) that reports wrongdoing to law enforcement   | Stored using a non-negative integer value, -1 represents missing values.   |
| 7          | Number of female             | the number of female person(s) that   |  |
| ,          | complainants                 | reports wrongdoing to law enforcement   | Stored using a non-negative integer  |
| 8          | Number of                    | the number of persons who make an   | value, -1 represents missing values.<br>Stored using a non-negative integer  |
| 0          | appeallants                  | appeal to a higher court against a judgement made in a lower court  | value, -1 represents missing values.   |
| 9          | Number of male appeallants   | the number of male persons who make<br>an appeal to a higher court against a<br>judgement made in a lower court   | Stored using a non-negative integer value, -1 represents missing values.   |
| 10         | Number of female appeallants | the number of female persons who make<br>an appeal to a higher court against a<br>judgement made in a lower court | Stored using a non-negative integer value, -1 represents missing values.   |
| 11         | Number of public witness(es) | the number of person(s) not a party and<br>not called by a party to testify at a                                  | Stored using a non-negative integer value, -1 represents missing values.   |
| 12         | Number of eye<br>witness(es) | hearing<br>the number of person(s) who has seen<br>something happen and can give a                                | Stored using a non-negative integer value, -1 represents missing values.   |
|            | withess(cs)                  | first-hand description of it  | value, -1 represents missing values.   |
| 13         | Number of defense            | the number of witness(es) whom the  | Stored using a non-negative integer  |
|            | witness(es)                  | appellant intends to call at a hearing or at trial  | value, -1 represents missing values.   |
| 14         | Final decision held          | the judgement made by the SCN   | Stored using a non-negative integer  |
|            | (Judgment)                   | regarding the appeal as either approved or disapproved  | value, -1 represents missing values.   |

| Descriptive Statistics of the distribution of numeric variables. |                        |                                   |                                     |                      |      |                                   |                                  |                               |                                   |
|--|------------------------|-----------------------------------|-------------------------------------|----------------------|------|-----------------------------------|----------------------------------|-------------------------------|-----------------------------------|
| Statistic  | number of complainants | number of<br>male<br>complainants | number of<br>female<br>complainants | number of appellants | male | number of<br>female<br>appellants | number of<br>public<br>witnesses | number of<br>eye<br>witnesses | number of<br>defense<br>witnesses |
| Mean   | 1                      | 0                                 | 0                                   | 1                    | 1    | 0                                 | 0                                | 0                             | 0                                 |
| Standard Error   | 0.04                   | 0.02                              | 0.01                                | 0.03                 | 0.02 | 0.01                              | 0.04                             | 0.01                          | 0.02                              |
| Median   | 1                      | 0                                 | 0                                   | 1                    | 1    | 0                                 | 0                                | 0                             | 0                                 |
| Mode   | 1                      | 0                                 | 0                                   | 1                    | 1    | 0                                 | 0                                | 0                             | 0                                 |
| Standard   | 1.80                   | 0.63                              | 0.36                                | 1.93                 | 1.00 | 0.30                              | 2.00                             | 0.79                          | 0.91                              |
| Deviation  |                        |                                   |                                     |                      |      |                                   |                                  |                               |                                   |
| Sample   | 3.23                   | 0.39                              | 0.13                                | 3.72                 | 1.00 | 0.09                              | 3.99                             | 0.62                          | 0.82                              |

193 28

10.85

46

1

46

22 50

411

10

n

21.87

428

3

0

22 79

413

22

n

101 53

8 84

14

n

170 24

10.20

23

Λ

**Table 4**Descriptive Statistics of the distribution of numeric variables

611

1.80

5

0

5

Table 4 shows the result of the statistical distribution of the numeric features in the dataset based on a number of statistics. The analysis was done using descriptive statistical analysis of the values by estimating the mean, minimum, maximum, median, mode, standard error, standard deviation and other related statistic.

# 4. Experimental Design, Materials and Methods

# 4.1. Data acquisition

Variance

Kurtosis

Range Minimum

Skewness

Maximum

226.89

12 52

41

1

41

Before developing the dataset, a thorough review of the literature covering various areas was initially conducted in order to have a good understanding of the underlying concepts. It was observed that every case consists of a number of components namely: the case identity number, date of the case, location of trial and appeal, information about the appellant, complainants, and witnesses, offence committed, sentence declared, determination of appeals, introduction to the appeal, facts covered, issues and the decision held by the judges regarding the appeal. The various features that were identified include the following:

i. Appeal district - the senatorial district of the appeal court;

19.94

3 83

4

n

4

- ii. Trial district the senatorial district of the trial court;
- iii. Offence conducts or omissions that violate and are punishable under criminal law;
- iv. Sentence formal judgment of a convicted defendant in a criminal case setting the punishment to be meted out.
- v. Number of complainants the number of person(s) that reports wrongdoing to law enforcement;
- vi. Number of male complainants the number of male person(s) that reports wrongdoing to law enforcement;
- vii. Number of female complainants the number of female person(s) that reports wrongdoing to law enforcement;
- viii. Number of appellants the number of persons who make an appeal to a higher court against a judgment made in a lower court;
  - ix. Number of male appellants the number of male persons who make an appeal to a higher court against a judgment made in a lower court
  - x. Number of female appellants the number of female persons who make an appeal to a higher court against a judgment made in a lower court
  - xi. Number of public witness(es) the number of person(s) not a party and not called by a party to testify at a hearing;
- xii. Number of eye witness(es) the number of person(s) who has seen something happen and can give a first-hand description of it;

- xiii. Number of defense witness(es) the number of witness(es) whom the appellant intends to call at a hearing or at trial;
- xiv. Final decision held the judgment made by the SCN regarding the appeal as either approved or disapproved.
- xv. Number of eye witness(es) the number of person(s) who has seen something happen and can give a first-hand description of it;
- xvi. Number of defense witness(es) the number of witness(es) whom the appellant intends to call at a hearing or at trial;
- xvii. Final decision held the judgment made by the SCN regarding the appeal as either approved or disapproved.

The information extracted from literature review was validated by professional lawyers and subsequently, data containing information about the factors were collected.

These variables were used as a basis for the extraction of the data that was stored in an online archive containing details about the outcomes of various appeal brought before the Supreme Court of Nigeria (SCN). The repository consists of electronic summaries of the proceedings of cases containing various sections such as introduction, facts, issues and the decision held by the SCN. Figs. 1 and 2 show screenshots of the judgments of criminal and civil cases respectively brought before the SCN.

#### INTRODUCTION:

This appeal borders on Criminal Law and Procedure.

#### FACTS:

This is an appeal against the decision of the Court of Appeal, Kaduna Division, as contained in the judgment of their Lordships, Uwani Musa Abba Aji, (JCA), Amina Audi Wambai (JCA) and Obietanbara Daniel-Kalio (JCA), delivered by her Lordship Amina Audi Wambai JCA on the 31st January, 2018.

The Appellant was charged on a two counts charge for the offences of rape contrary to Section 282 (1) (e) of the Penal Code Law, Cap. P3, Laws of Jigawa State, Volume 3, 2012 as well as the offence of the act of gross indecency contrary to Section 285 of the Penal Code Law, Cap. P3, Laws of Jigawa State, Volume 3, 2012. The Respondent, as prosecution, called four witnesses. The Complainant, Asisa Sirajo, who was seven (7) years old, testified as P.W.1 about the incident which happened a year before when she was six years old. She testified that she knew the Appellant and that on the day in question, while she was baking clay in the company of her relatives, the Appellant called her to collect an iron material from an uncompleted building. She also testified that after she entered the uncompleted building, the Appellant who had followed her there pinned her down and inserted his penis into her vagina and her mouth. She further testified that when she shouted for help, one Abba came to the scene of crime and saw them. He then ran to inform her mother. After the Appellant saw Abba, he threw her out of the uncompleted building. She further testified under cross-examination that the Appellant told her that if she refused to follow his instruction to fetch him the iron in the building, he would beat her.

Abba, who testified as P.W.2, was an eye witness to the crime and he testified as a ten (10) year old. He swore that he saw the Appellant <u>pin</u> down the Complainant and sexually assault her in the uncompleted building. In a considered judgment, the trial Court convicted the Appellant and sentenced him accordingly.

The Appellant appealed to the Court of Appeal. On appeal, the Court of Appeal affirmed the conviction and sentences of the Appellant for the offences of rape and acts of gross indecency.

Dissatisfied, the Appellant appealed to the Supreme Court.

#### ISSUES:

The appeal was determined upon consideration of the issue thus:

"Whether having regards to the applicable laws vis-a-vis the facts before it, the lower Court was right in dismissing the appeal and went ahead to affirm the conviction and sentences of the Appellant as entered by the trial Court on the two count charge against the Appellant."

## DECISION/HELD:

The appeal failed and was dismissed. The judgments of the two lower Courts were consequently affirmed.

Fig. 1. A sample of an appeal for a criminal case collected from the online archive.

#### JUDGMENT 206

INTRODUCTION: This appeal borders on Civil Procedure.

FACTS: This is an appeal against the decision of the Court of Appeal Ibadan Division dismissing an appeal against the judgment of the High Court. The appellant (plaintiff) instituted an action at the Ilesha High Court against the respondents who were the defendants. It was the case of the appellant that the rooms and shops occupied by the defendants/respondents are within his chieftaincy palace or official residence and owned by his chieftaincy family of Risawe of Ilesa. He therefore sought a declaration of a statutory right of occupancy in respect of the land in dispute, forfeiture, ejectment from the rooms and shops and account and payment in respect of them. The respondents have quite a different case. In the nutshell, it was the case of the 2nd respondent that he owns the land by virtue of an out-and-out allotment by the appellant's grandfather to his father in 1910 or thereabout. The appellant denied the claim. At the trial in the High Court, the learned trial Judge did not believe the story of the appellant and dismissed the case. An appeal to the Court of Appeal was also dismissed by the Court of Appeal. The Appellant still dissatisfied appealed to the Supreme Court.

ISSUES: The appellant formulated four issues as follows:

- "(1) Whether the learned Justices of the Court of Appeal were right in affirming the findings of the court of first instance that there was no settlement of issues at the proceedings of 6/2/90 amounting to a consent judgment in respect of the issue of ownership of the land-in dispute.
- (2) Whether the learned Justices of the Court of Appeal were right in affirming the judgment of the court of first instance that the transaction between the appellant's grandfather and the 2nd respondent's father amounted to a sale of the land-in-dispute.
- (3) Whether the learned Justices of the Court of Appeal duly and sufficiently considered issues numbers 3 and 4 submitted to the court for adjudication.
- (4) Whether the learned Justices of the Court of Appeal were right in raising suo moto and deciding the issue of laches and acquiescence without the parties being heard on the issue, and if so, whether the appellant was in fact guilty of laches and acquiescence."

### DECISION/HELD:

In the final analysis, the appellant's appeal succeeded. The decisions of the High Court and the Court of Appeal were set aside by the Supreme Court.

Fig. 2. A sample of an appeal for a civil case collected from the online archive.

Each case has a serial number including district of appeal, district of trial, offence and sentence which were all captured as categorical values from the introduction, facts and issues components of the raw file. Also, information about the number of complainants, male complainants, female complainants, appellant, male appellant, public witness, eye witness and defense witness which were extracted from the fact's component of the raw file was sored as numeric values. Information about the outcome of each appeal according to the SCN was also collected and stored as a string variable called decision which contained the verdict of the SCN on every case. However, an additional variable was created named decision binary which was used to classify the decision based on granted and dismissed appeals alone. All other verdicts such as sustained, suspended, re-appeal were removed from the dataset alongside cases that were lost as a result of damages files.

The unstructured data stored in each text file was converted into a structured data containing information about a set of variables which were all extracted from documents collected from the online archive. Each part of the document was used to extract the information about each identified variable associated with the outcome of the cases while the decision held was used to determine if the appeal was either dismissed or granted. The city of the appeal and trial were classified according to their senatorial district in Nigeria to which their states belonged. This was done in order to reduce the set of values that were represented for each feature so as to reduce the complexity of the analysis of each feature. As a result of this, the city of trial and

appeal were categorized into their respective senatorial districts. Each categorical variable was represented using a numeric value that lie between the numbers 1 and 7 as depicted in Table 2. Each senatorial district was coded with an integer value that was used to replace the categorical values of each feature.

More so, the various offences and sentence declared for each appeal case which was represented as categorical string values were converted into numeric values. More so, the target variable which contained information about the judgment of the appeal cases by the SCN was classified into two classes that were converted to binary values; 0 and 1 for the dismissed and granted appeal cases respectively.

## 4.2. Data pre-processing

The pre-processing of the dataset was needed in order to eliminate the inconsistencies created as a result of noise in the dataset due to the presence of missing values across the features. Fig. 3 shows a description of the distribution of the proportion of the total records that were missing from the values of the features that were extracted from the case files in the dataset collected for this study. According to the figure, it was observed that as much as up to 72% of the total records were missing from the values of the number of male and female complainants however the values of the total number of complainants accounted for up to 44% of total records missing. Since all the features in the dataset had been converted to a numeric value, all the missing values within the feature set were replaced with a dummy value of -1. By doing this, subsequent missing values that are encountered within the dataset could be replaced with a dummy value thus making the dataset more suitable for use.

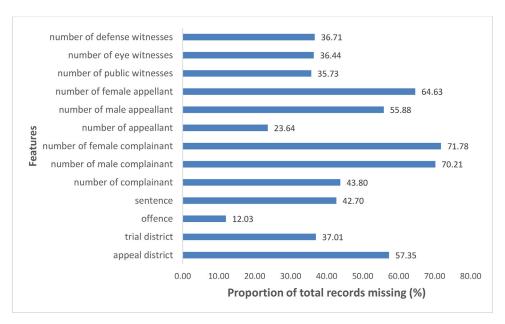


Fig. 3. Distribution of missing values across features.

## **Ethics Statement**

The authors read and strictly adhered to all the ethical requirements for publication in Data in Brief. We confirm that that the current work does not involve human subjects, animal experiments or any data collected from social media platforms. The primary data used was gotten from a publicly available subscription based platform with permission and all records used were anonymized.

## **Declaration of Competing Interest**

The authors declare that they have no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper.

# **Data Availability**

Appeal Cases heard at the Supreme Court of Nigeria Dataset (Original data) (Mendeley Data).

## **CRediT Author Statement**

**O.C. Ngige:** Conceptualization, Methodology, Software, Data curation, Writing – original draft; **F.Y. Ayankoya:** Supervision, Software, Validation; **J.A. Balogun:** Conceptualization, Methodology, Software, Data curation, Writing – original draft, Visualization, Investigation, Software, Validation, Writing – review & editing; **E. Onuiri:** Conceptualization, Methodology, Software, Data curation, Writing – original draft; **C. Agbonkhese:** Software, Validation, Writing – review & editing; **F.A. Sanusi:** Visualization, Investigation, Supervision, Writing – review & editing.

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