

REVOLUTIONIZATION NEWSCOMSWITHIND AND MACHINE LEARNING

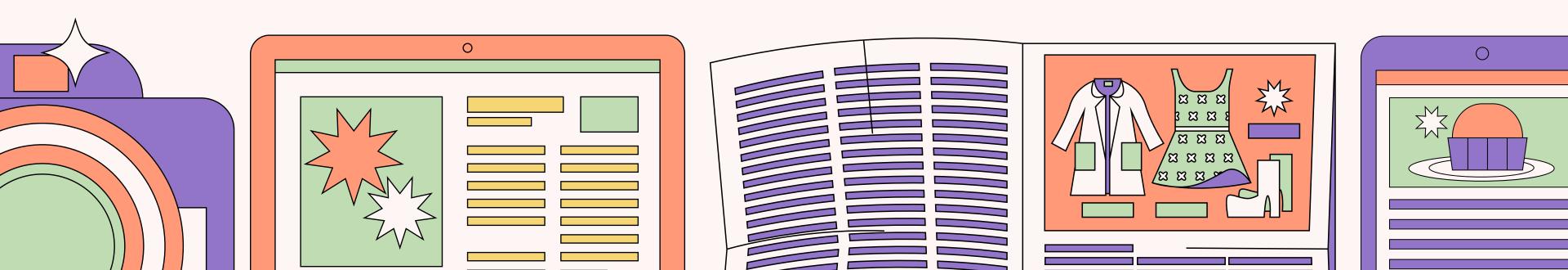
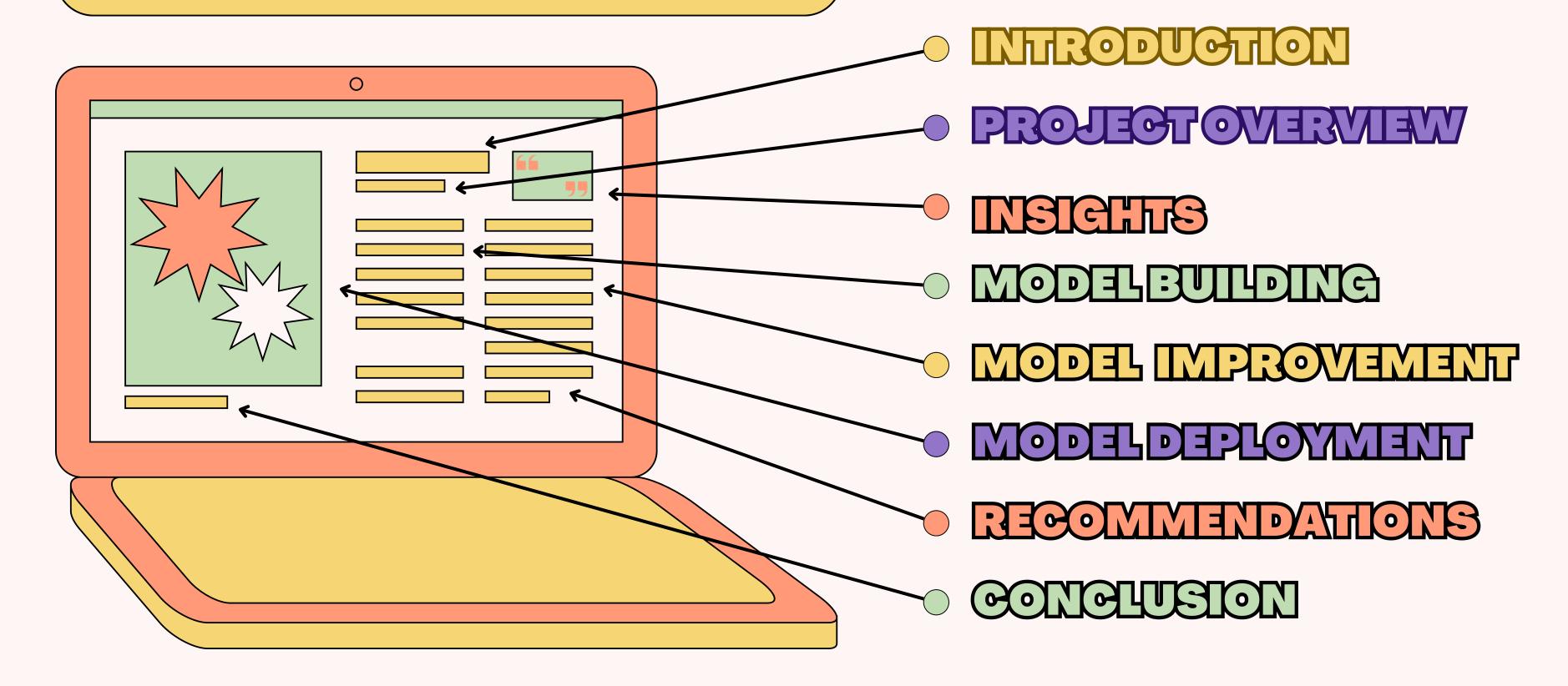
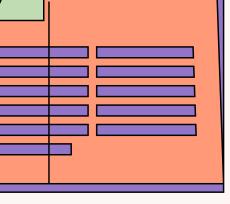


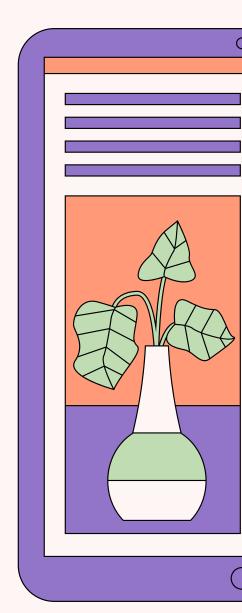
Table of Contents



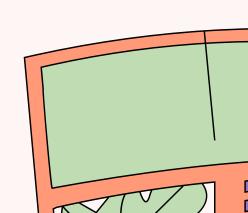


METOURTEAM

- CLEMENT MPHETHI LEAD DATA SCIENTIST
- NOLWAZI MNDEBELE PROJECT MANAGER
- TSHEPISO MUDAU CITHUB MANAGER
- NEO RADEBE DATA SCIENTIST
- NALEDI MOGAFE MOGALE DATASCIENTIST
- · KOENA MCDONALD MALLADISA DATA SCIENTIST







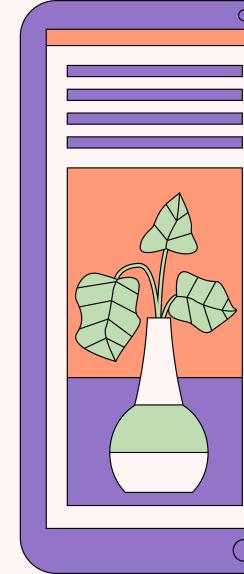


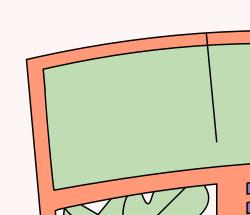


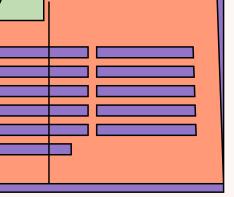
HOW CAN WE HARNESS THE POWER OF DATA SCIENCE TO ENHANCE THE READER EXPERIENCE AND STREAMUNE NEWS CONTENT MANAGEMENT?







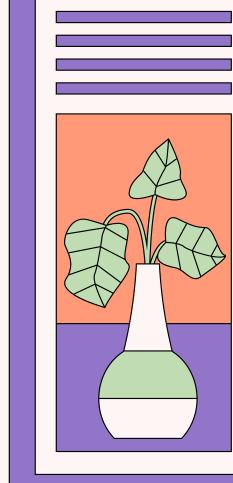




PROJECT OWESWEEDER

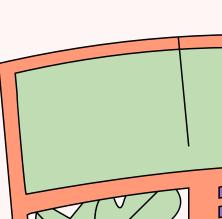


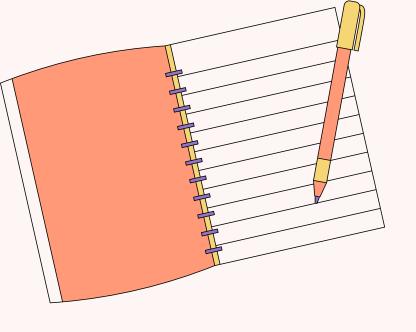




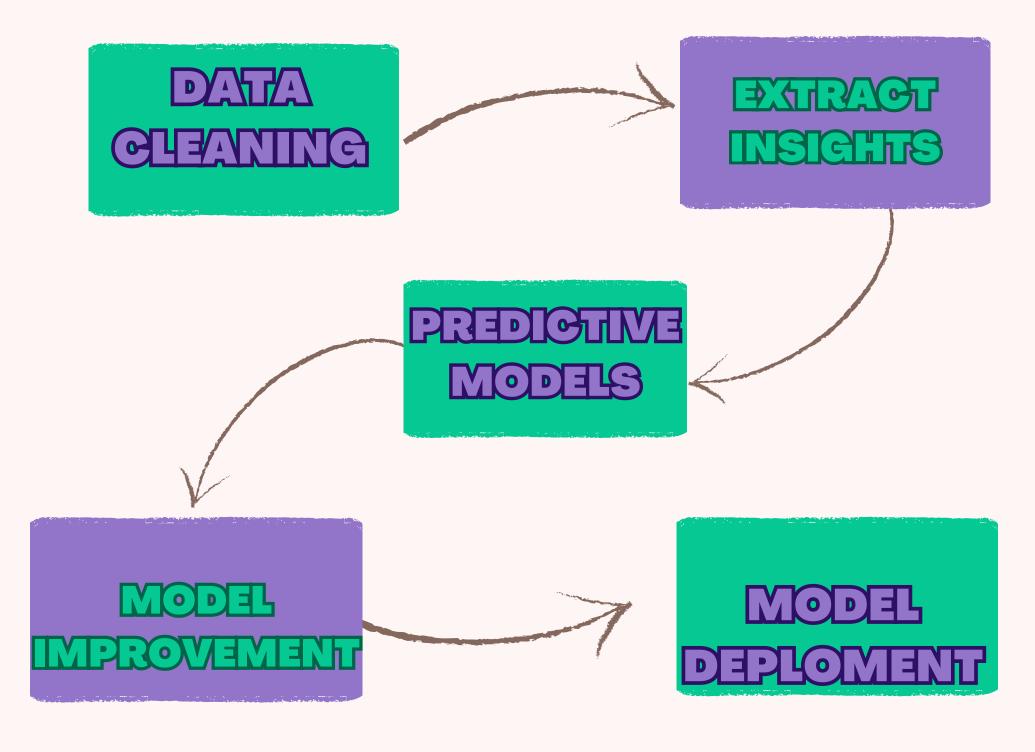
HOW CAN WEDEVELOP AN ACCURATE MODEL FOR BETTER
NEWS CATEGORIZATION?

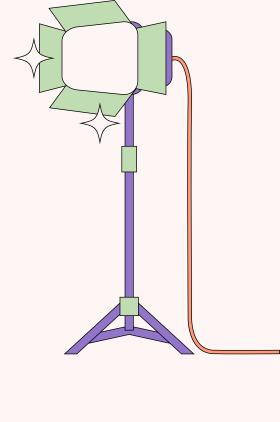




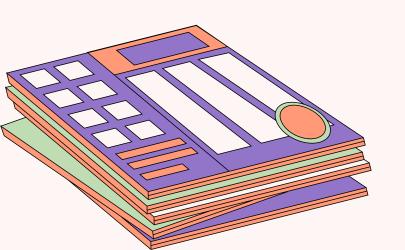


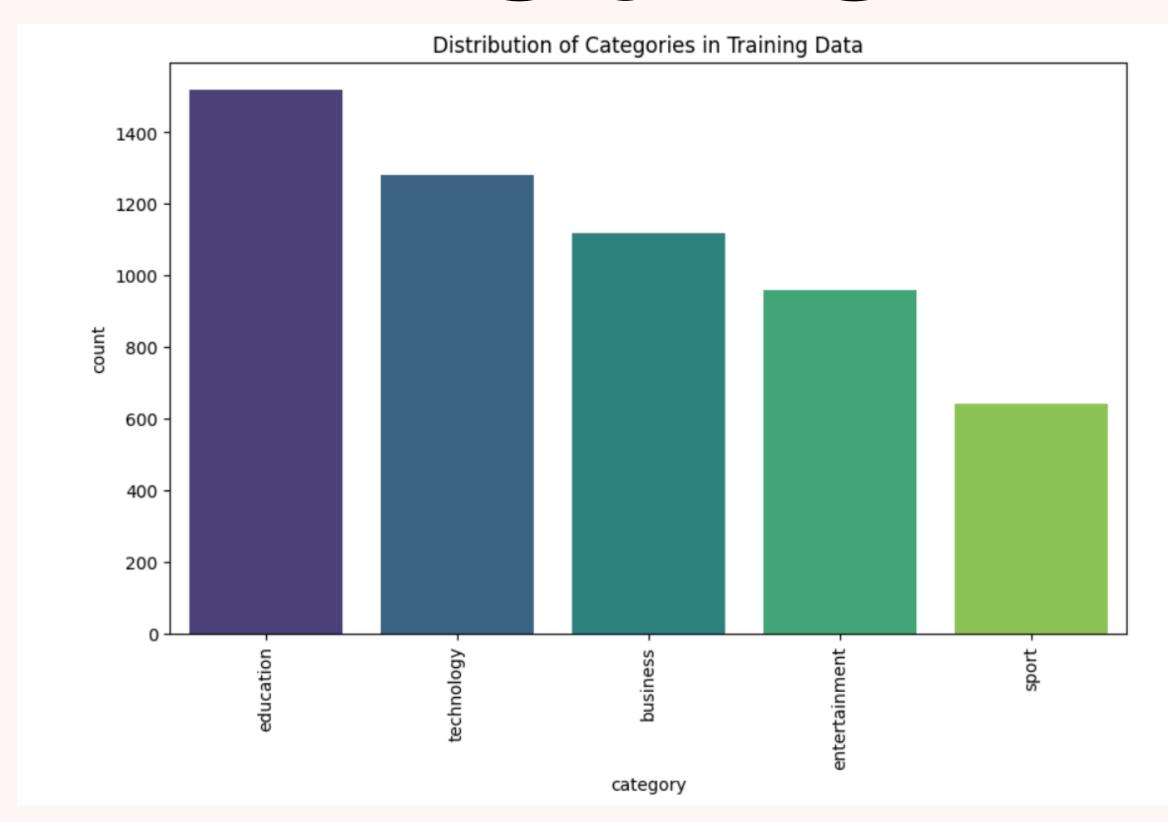
PROJECT WALKTHROUGH







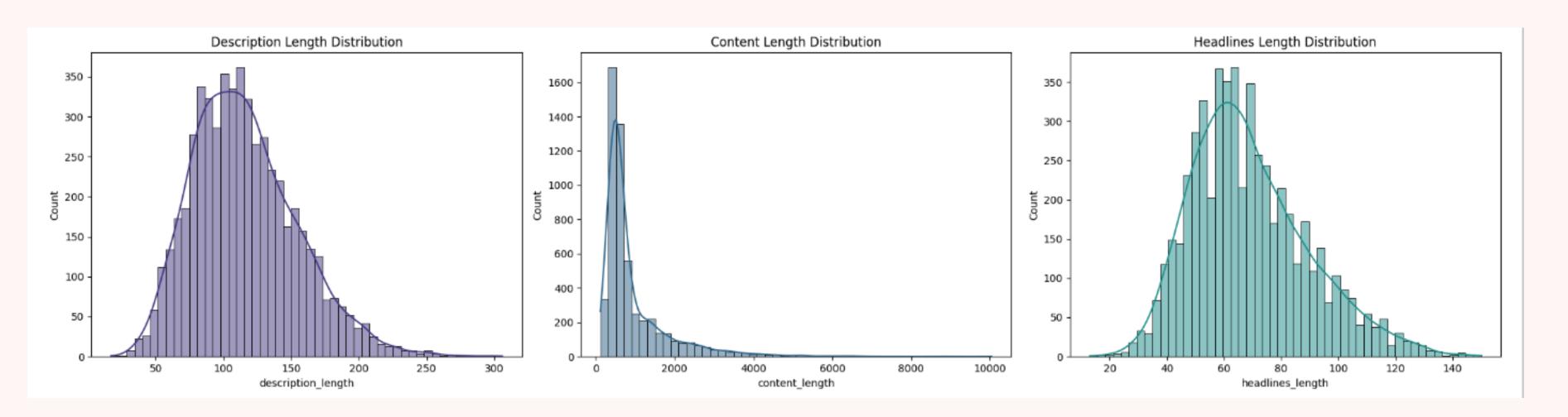




- CATEGORY, WITH MORE
 THAN 1400 ENTRIES.
- SPORT IS THE CATEGORY WITH THE LEAST ENTRIES, LESS THAN 800.

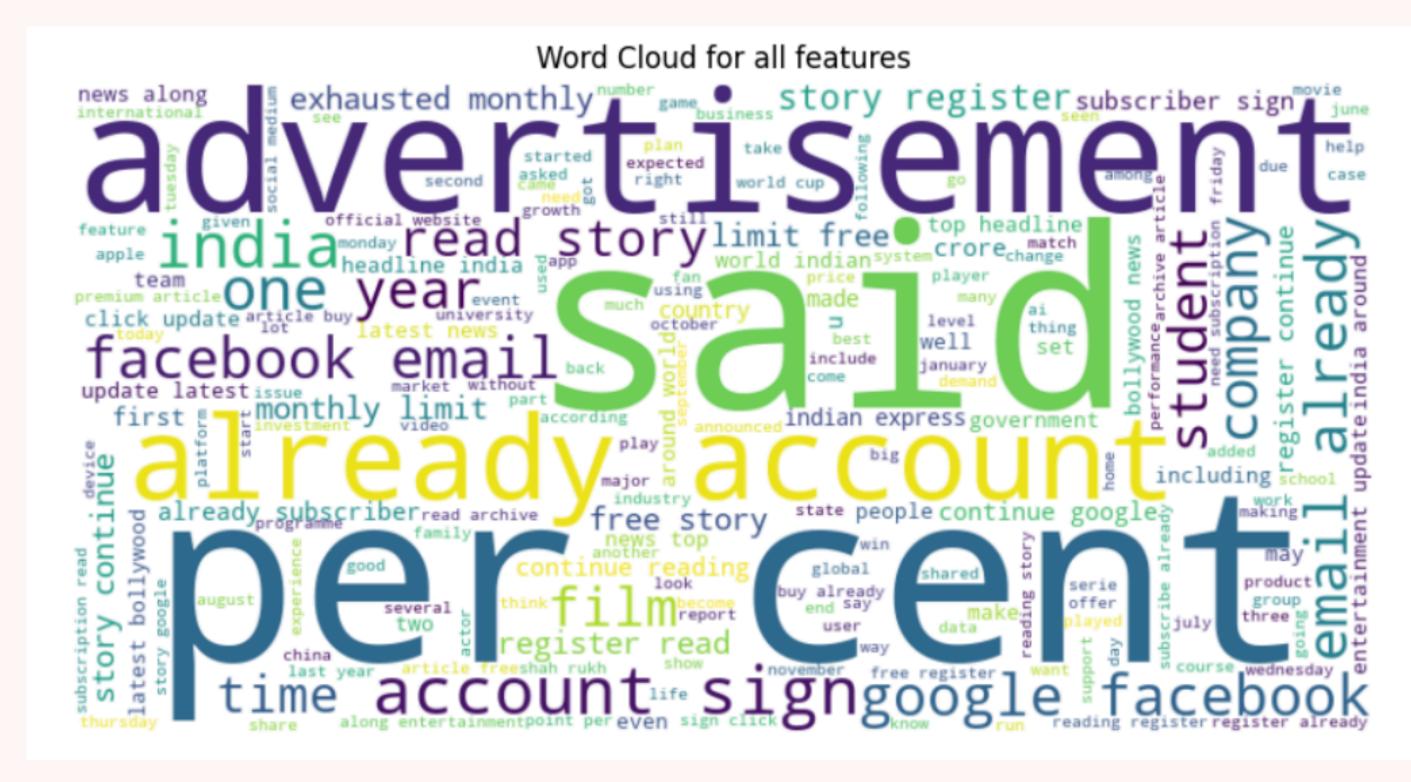


TEXT LINETH ANALYSIS





WORD CLOUD VISUALIZATION





MODEL TRAINING

• MUILTICLASS LOCISTIC RECRESSION

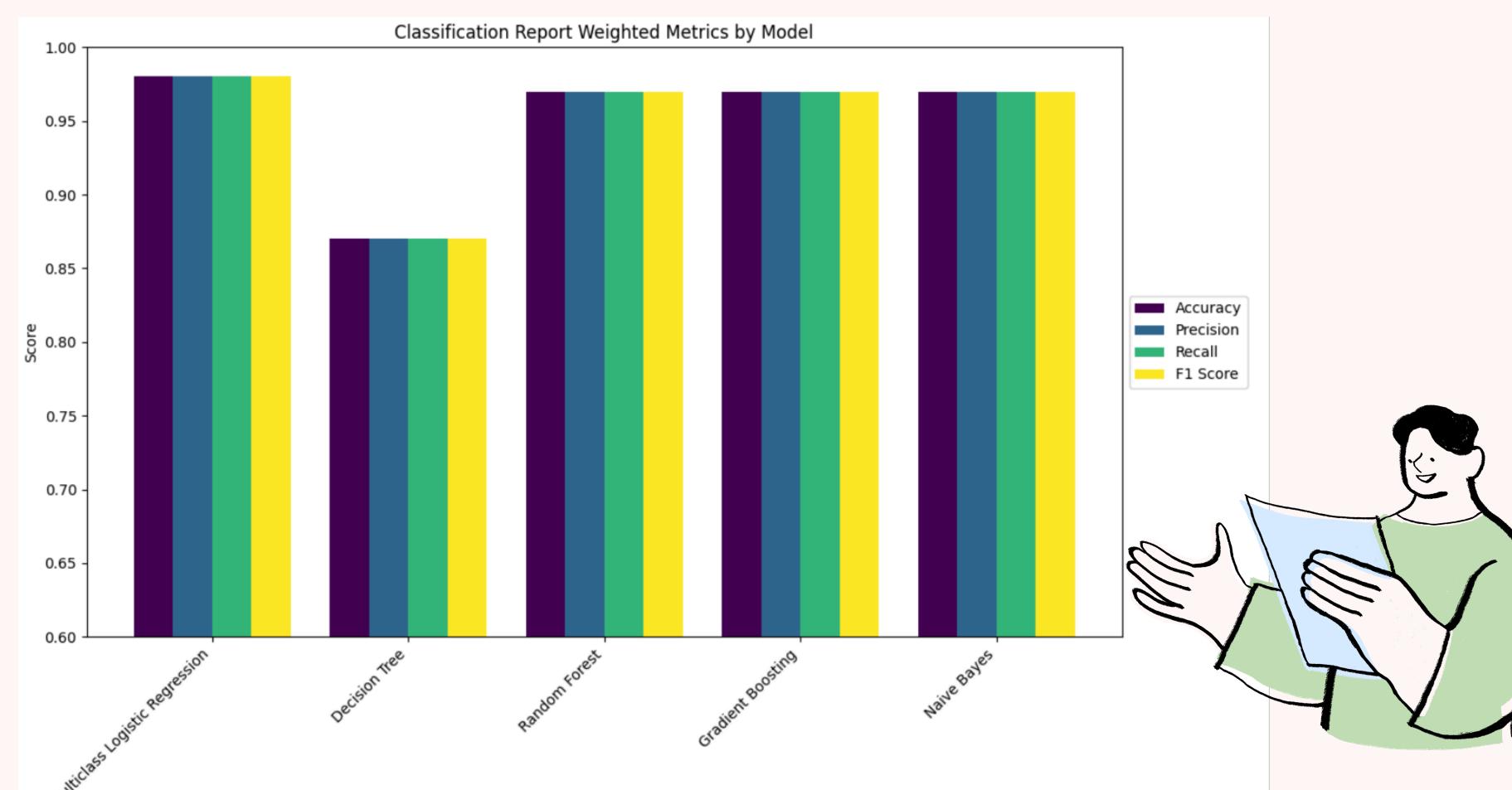
• DECISION TREES

RANDOM FOREST MODEL

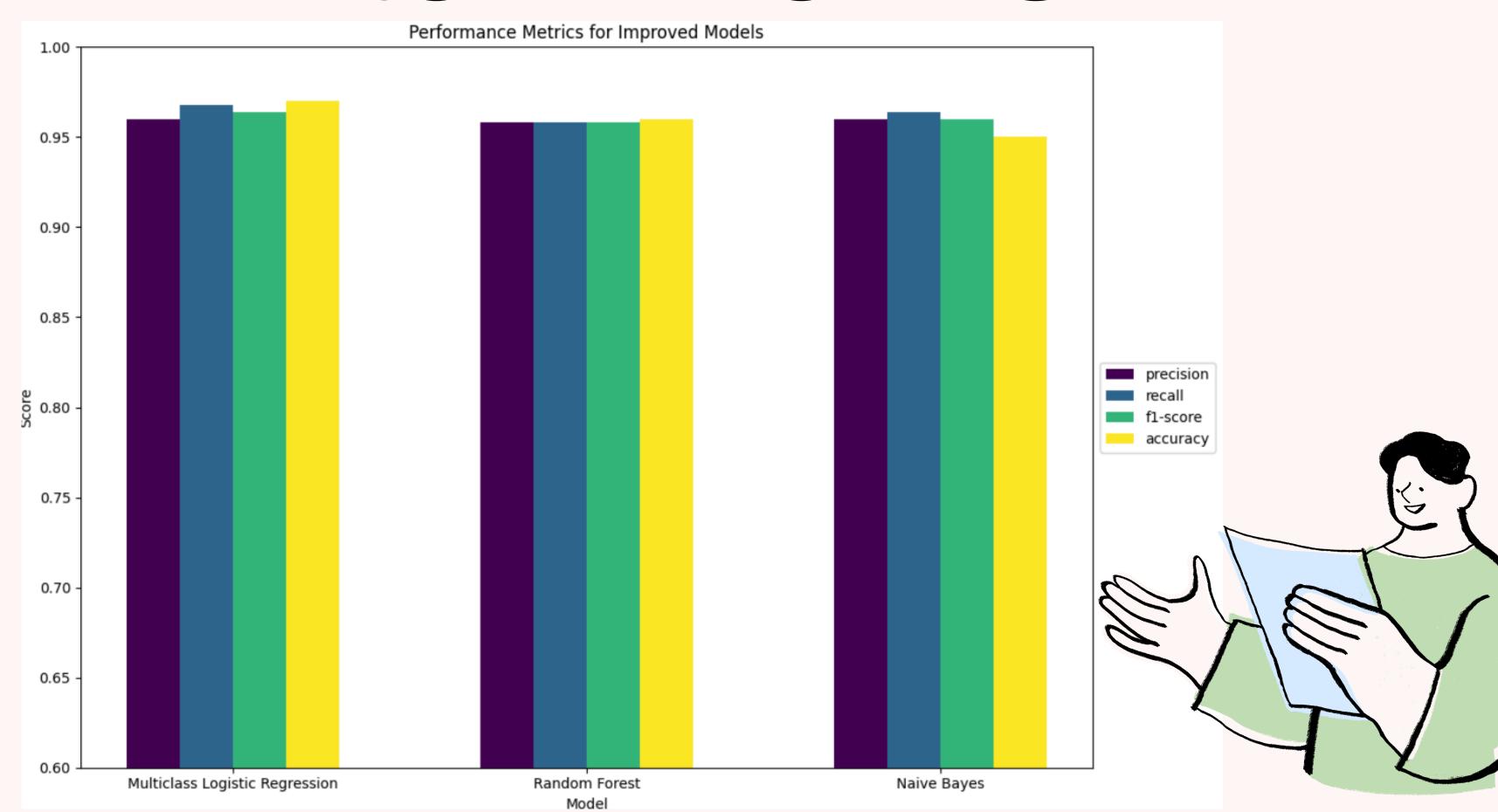
• GRADIENT BOOSTING MODEL

• NAIVE BAYES MODEL

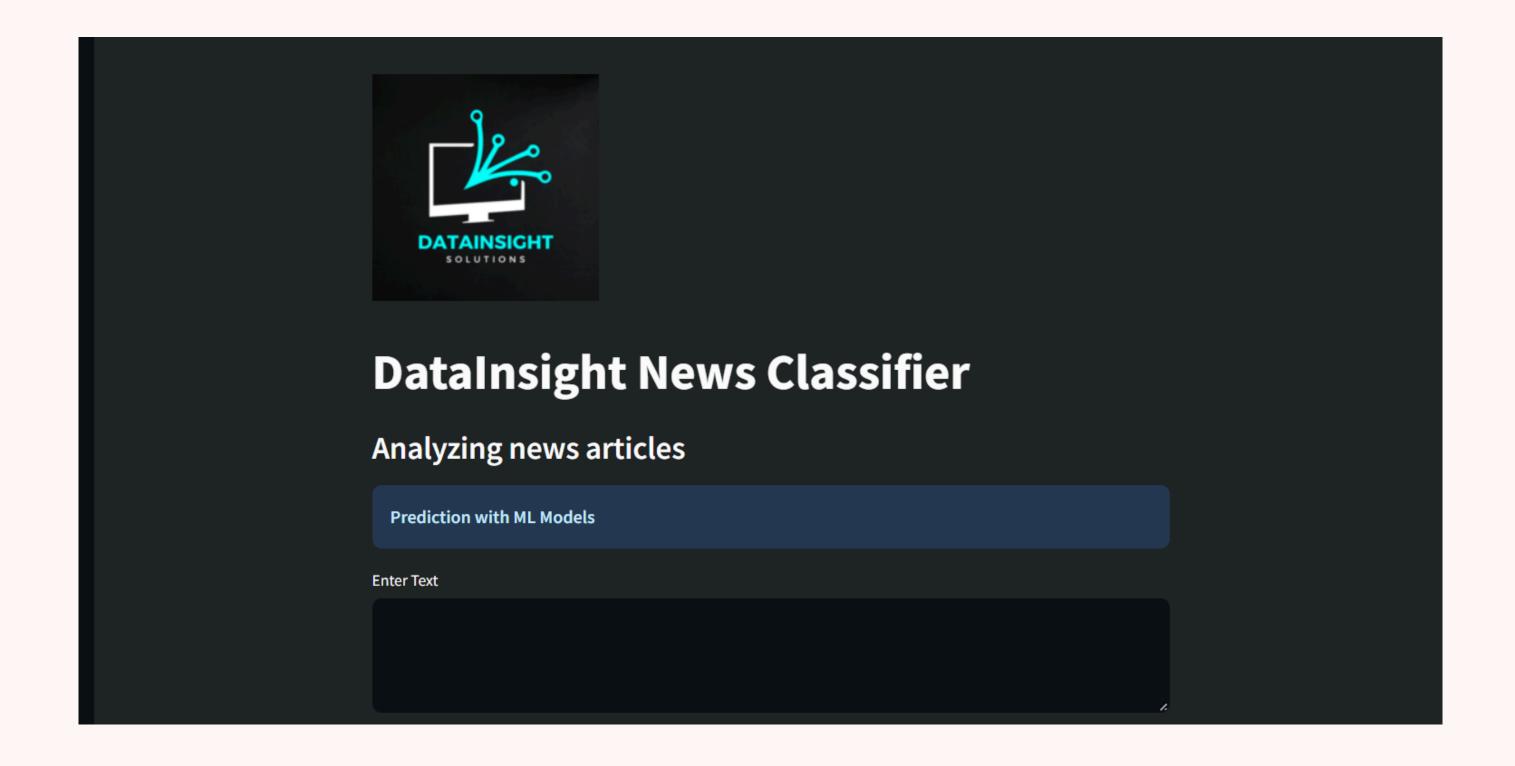
MODEL INSIGHTS



MPROVED MODELS



MODELDEZOMENT



HTTPS://HOODPHARMXCIST-CLASSIFICATION-APP-BASE-APP-TODINGS-STREAMUT APP/

RECOMMENDATIONS

BASED ON THE PROJECT FINDINGS, HERE ARE SOME OUR
RECOMMENDATIONS FOR FURTHER IMPROVEMENT AND FUTURE WORKS

- USE ADVANCED TECHNIQUES LIKE PHRASE EXTRACTION FOR NUANCED INFORMATION
- CONTINUOUSLY MONITOR AND UPDATE THE MODEL POST-DEPLOYMENT TO ADAPT TO CHANGING TRENDS.
- CATHER AND INCORPORATE USER FEEDBACK TO IMPROVE THE SYSTEM BASED ON REAL-WORLD USAGE

CONCLUSION

THE NEWS CLASSIFIER APP HAS DEMONSTRATED EXCEPTIONAL SUCCESS WITH A 97% ACCURACY RATE AND ROBUST PRECISION AND RECALL SCORES EXCEEDING 0.95 ACROSS ALL CATEGORIES.

ITS PRACTICAL APPLICATIONS IN JOURNALISM STREAMLINE OPERATIONS, IMPROVE CONTENT RELEVANCE, AND BOOST AD REVENUE. TECHNICALLY, INTEGRATING ADVANCED MODELS LIKE MULTICLASS LOGISTIC REGRESSION ENSURES SCALABILITY AND RELIABILITY EVEN UNDER HIGH LOAD CONDITIONS. FUTURE PLANS INCLUDE ADDING MULTILINGUAL SUPPORT AND REAL-TIME CLASSIFICATION, DRIVEN BY CONTINUOUS USER FEEDBACK FOR ONGOING ENHANCEMENT.

OVERALL, THE APP SURPASSES EXPECTATIONS, ESTABLISHING ITSELF AS A PIVOTAL TOOL IN THE FIELD OF NEWS CLASSIFICATION.