

Automatic Music Genres Classification using Machine Learning

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Abstract—Classification of music genre has been an inspiring job in the area of music information retrieval (MIR). Classification of genre can be valuable to explain some actual interesting problems such as creating song references, finding related songs, finding societies who will like that specific song. The purpose of our research is to find best machine learning algorithm that predict the genre of songs using k-nearest neighbor (k-NN) and Support Vector Machine (SVM). This paper also presents comparative analysis between k-nearest neighbor (k-NN) and Support Vector Machine (SVM) with dimensionality return and then without dimensionality reduction via principal component analysis (PCA). The Mel Frequency Cepstral Coefficients (MFCC) is used to extract information for the data set. In addition, the MFCC features are used for individual tracks. From results we found that without the dimensionality reduction both k-nearest neighbor and Support Vector Machine (SVM) gave more accurate results compare to the results with dimensionality reduction. Overall the Support Vector Machine (SVM) is much more effective classifier for classification of music genre. It gave an overall accuracy of 77%.

Keywords—*K-nearest neighbor (k-NN); Support Vector Machine (SVM); music; genre; classification; features; Mel Frequency Cepstral Coefficients (MFCC); principal component analysis (PCA)*

I. INTRODUCTION

Nowadays, a personal music collection may contain hundreds of songs, while the professional collection usually contains tens of thousands of music files. Most of the music files are indexed by the song title or the artist name [1], which may cause difficulty in searching for a song associated with a particular genre.

Advanced music databases are continuously achieving reputation in relations to specialized archives and private sound collections. Due to improvements in internet services and network bandwidth there is also an increase in number of people involving with the audio libraries. But with large music database the warehouses require an exhausting and time consuming work, particularly when categorizing audio genre manually. Music has also been divided into Genres and sub-genres not only on the basis on music but also on the lyrics as well [2]. This makes classification harder. To make things more complicate the definition of music genre may have very well changed over time [3]. For instance, rock songs that were made fifty years ago are different from the rock songs we have today. Luckily, the progress in music data and music recovery has considerable growth in past years.

According to Aucouturier and Pachet, 2003 [4] genre of music is possibly the best general information for the music content clarification. Music engineering encourages the practice of categories and family based operators like to organize their sound accumulations by this clarification, so the requirement of involuntary organization of audio files into categories improved extensively. In addition, the latest improvements in category organization here are still an issue to accurately describe a type, or whether mostly relay on a consumer understands and flavor.

In order to establish and explore increasing composition groups we implemented an automatic technique that can be used for data mining for valuable data about audio composition direct from the audio file. Such data could incorporate rhythm, tempo, energy distribution, pitch, timbre, or other features. Most of the classifications depend on spectral statistical features timbre. Content collections relating to further musicological contents such as pitch and rhythm are too suggested, however their execution time is very less and furthermore they are closed by tiny info collections pointing at different audio arrangements. The inadequateness of audio descriptors will positively have a limitation on music categorization methods.

In this paper, we use machine learning algorithms, including k-nearest neighbor (k-NN) [5] and Support Vector Machine (SVM) [6] to classify the following 10 genres: blues, classical, rock, jazz, reggae, metal, country, pop, disco and hip-hop. In addition, we perform a comparative analysis between k-nearest neighbor (k-NN) [5] and Support Vector Machine (SVM) [6] with and without dimensionality reduction via principal component analysis (PCA) [7]. The k-nearest neighbor is automatically non-linear, and it can sense linear or non-linear spread information. It inclines to do very well with a lot of data points. Support Vector Machine can be used in linear or non-linear methods, once we have a partial set of points in many dimensions the Support Vector Machine inclines to be very good because it easily discovers the linear separation that should exist. Support Vector Machine is good with outliers as it will only use the most related points to find a linear separation (support vectors).

In our research we used Mel Frequency Cepstral Coefficients (MFCC) [8] to extract information from our data as prescribed by past work in this field [9].

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**Simon Dixon, David Bainbridge, Rainer
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Mohamad, Mohammad Nazir Ahmad, 2023-10-19 This book constitutes the refereed proceedings of the 8th International Conference on Advances in Visual Informatics IVIC 2023 held in Selangor Malaysia in November 2023 The 51 full papers presented were carefully reviewed and selected from 101 submissions The conference focused on 6 tracks Modeling and Simulation Mixed Reality and HCI Systems Integration and IoT Cybersecurity Energy Informatics and Intelligent Data Analytics *VLSI, Communication and Signal Processing* R. K. Nagaria, V. S. Tripathi, Carlos Ruiz Zamarrero, Yogendra Kumar Prajapati, 2023-07-01 This book covers a variety of topics in Electronics and Communication Engineering especially in the area of microelectronics and VLSI design communication systems and networks and signal and image processing The content is based on papers presented at the 5th International Conference on VLSI Communication and Signal Processing VCAS 2022 The book also discusses the emerging applications of novel tools and techniques in image video and multimedia signal processing This book is useful to students researchers and professionals working in the electronics and communication domain Proceedings of the Fifth International Conference on Emerging Trends in Mathematical Sciences & Computing (IEMSC-24) Biswadip Basu Mallik, Krishanu Deyasi, Santanu Das, Sharmistha Ghosh, Subrata Jana, 2024-10-31 The Proceedings of the Fifth International Conference on Emerging Trends in Mathematical Sciences Computing IEMSC 24 contains papers that present the current scientific as well as technological innovations by leading academicians eminent researchers and experts throughout the globe in the twin domain of Mathematical Sciences as well as Computing The papers focus on the recent advances in the field of Theoretical Computer Science as well as its blending with Mathematical techniques The book aims to disseminate new technical ideas and features that can be incorporated in day to day life for the benefit of the society The research papers exhibit scientific advancements in diversified spectrum that includes Differential as well as Integral Equations with applications Computational Fluid Dynamics Nanofluids Network Theory Optimization Control Theory Machine Learning Artificial Intelligence Big Data Analytics IoT Cryptography Fuzzy Automata Statistics and many more The proceedings primarily focus on the amalgamation of mathematical methods with computing The potential readers will get access to diverse ideas and innovations in the field of computing together with its growing interactions in various fields of mathematics This book serves as a valuable reference resource for researchers in academia and industry **Computer Networks and Inventive Communication Technologies** S. Smys, Robert Bestak, Ram Palanisamy, Ivan Kotuliak, 2021-09-13 This book is a collection of peer reviewed best selected research papers presented at 4th International Conference on Computer Networks and Inventive Communication Technologies ICCNCT 2021 The book covers new results in theory methodology and applications of computer networks and data communications It includes original papers on computer networks network protocols and wireless networks data communication technologies and network security The proceedings of this conference are a valuable resource dealing with both the important core and the specialized issues in the areas of next generation wireless network design control and management as well as in the areas of protection assurance and trust in

information security practice It is a reference for researchers instructors students scientists engineers managers and industry practitioners for advanced work in the area [IEEE ASSP Workshop on Applications of Signal Processing to Audio and Acoustics](#) ,2003 [Neural Network Music Genre Classification](#) Nikki Pelchat,2021 Music recommendation systems have become popular in recent years with the increasing variety of music content being produced as well as the sheer size of digital music collections which are available at the touch of a finger Large collections of digital music are commonly organized using genre labels In addition music genres are regularly used by recommendation systems to suggest new music to the listeners The chore of classifying a large amount of music manually can be difficult and time consuming It is for these reasons the automatic classification of music by genre is a crucial task The ability to automatically classify music by genre using machine learning can be quicker and arguably more accurate than doing it manually Using neural networks for generic classification tasks is a well researched area within machine learning In recent years the classification of music by genre has become part of the same problem domain Differences in song libraries machine learning techniques input formats and types of neural networks implemented have all had varying levels of success This thesis implements a convolutional neural network that classifies music by genre through the examination of spectrogram images It concentrates on three specific types of spectrogram inputs Linear Logarithmic and Mel scaled spectrograms as well as several input variables and neural network learning techniques to determine the effect that they have on the overall accuracy of the genre classification network This thesis demonstrates these convolutional neural network techniques for music genre classification and assesses their viability and accuracy **Proceedings of the ... Annual International ACM SIGIR Conference on Research and Development in Information Retrieval** ,2003 **Proceedings of the ... International Computer Music Conference** ,2005 **Proceedings of ... ACM/IEEE-CS Joint Conference on Digital Libraries** ,2005 *Handbook of Research on Digital Libraries* Yin-Leng Theng,2009 This book is an in depth collection aimed at developers and scholars of research articles from the expanding field of digital libraries Provided by publisher **ISMIR 2002 Conference Proceedings** Michael Fingerhut,2002 **ISMIR 2007** Simon Dixon,David Bainbridge,Rainer Typke,2007 *Computer Music Modeling and Retrieval* ,2004 [AES](#) ;,2004 **KDD ...** ,2006 **Proceedings of the ... ACM SIGMM International Workshop on Multimedia Information Retrieval** ,2004

Automatic Music Genres Classification Using Machine Learning: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have charmed audiences this year. Automatic Music Genres Classification Using Machine Learning : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Automatic Music Genres Classification Using Machine Learning : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Automatic Music Genres Classification Using Machine Learning : Delia Owens' "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is an exceptional and suspenseful novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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