\documentclass[8pt]{beamer}

\usepackage{graphicx}

\usepackage{booktabs}

\mode<presentation> {

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\usecolortheme[named=black]{structure}

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\setbeamercolor{date}{fg = blue}

\setbeamercolor{subtitle}{fg = black}

\setbeamertemplate{itemize item}{\color{black}$\bullet$}

\usepackage{helvet}

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\setbeamertemplate{navigation symbols}{}

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}

\title[Short title]{\textbf{\textit{Music Genre Classification}}}

\subtitle{

Machine learning module

}

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BVRIT HYDERABAD COLLEGE OF ENGINEERING FOR WOMEN

}

\date{May 29, 2021}

\begin{document}

\setbeamertemplate{background}{\includegraphics[width=\paperwidth, trim = 0 0 0 -17]{}}

\begin{frame}[plain]

\vspace\*{1.55cm}

\titlepage

\end{frame}

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\begin{frame}{\newline\newline\newline Problem Statement}

Create a CNN model which classifies music samples into different genres and predict the genre of an input audio file

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\begin{frame}{\newline\newline\newline Dataset}

\begin{itemize}

\item \textbf{.wav files per genre:} 100

\item \textbf{Number of Genres:} 10

\item \textbf{Genres:} Blues, Classical, Country, Disco, Hiphop, Jazz, Metal, Pop, Reggae, Rock

\end{itemize}

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\begin{frame}{\newline\newline\newline Approach }

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\begin{frame}

\frametitle{\newline\newline\newline Technical Stack}

\item \textbf{Libraries:}

\begin{itemize}

\item Librosa

\item Pandas

\item Numpy

\item Keras

\item Json

\item Sklearn

\end{itemize}

\item \textbf{Tools:}

\begin{itemize}

\item Google Colab

\item Latex

\end{itemize}

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\begin{frame}{\newline\newline\newline Learnings}

\begin{itemize}

\item Understanding Librosa library

\item Storing data into a JSON file

\item Building a CNN Model

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\begin{frame}{\newline\newline\newline Challenges}

\begin{itemize}

\item Extracting Features

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\begin{frame}{\newline\newline\newline Git Repo }

\item \textbf{Git Repo link:}

\url{https://github.com/satyakamuju72/Music\_Genre\_Classification}\newline

\begin{center}

\includegraphics[width=75mm,height=50mm,scale=1]{commit.jpeg}

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\begin{frame}{\newline\newline\newline Demo Code }

\begin{minipage}[t]{0.5\linewidth}

\includegraphics[width=60mm,height=60mm,scale=1]{code.jpeg}

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\begin{minipage}[t]{0.5\linewidth}

\includegraphics[width=60mm,height=60mm,scale=1]{output.jpeg}

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\begin{frame}{\newline\newline\newline User Interface }

\begin{itemsize}

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\end{itemsize}

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\begin{frame}{\newline\newline\newline References}

\textbf{Dataset:} \newline

\begin{itemize}

\item \url {https://www.kaggle.com/andradaolteanu/gtzan-dataset-music-genre-classification} \newline \newline

\end{itemize}

\textbf{Research Papers:}\newline

\begin{itemize}

\item \url{https://www.irjet.net/archives/V6/i5/IRJET-V6I5174.pdf}

\item \url{http://www.cs.cmu.edu/~yh/files/GCfA.pdf}

\item \url{https://www.researchgate.net/publication/329396097\_Music\_Genre\_Classification\_and\_Recommendation\_by\_Using\_Machine\_Learning\_Techniques}

\end{itemize}

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\Huge{\centerline{\textbf{\textit{THANKYOU!!}}}}

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