Project Idea: Music Genre Classification

Work Distribution:

* Tyler: Introduction, Risk Register
* Alex: Ethical Considerations, Data Processing
* Anna: Background & Related Work, Architecture, Baseline Model
* Blythe: Illustration, Project Plan

Team Charter Section Ideas:

* Internal Deadlines
* Meeting Schedule
* Conflict Resolution
* Team Member Expectations
* Team Member Skills
* Task Distribution

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# Outline Structure Draft + Expectations

### 1.0 Introduction (Tyler)

“Clearly described the project goal, why the project is interesting and/or useful, and convincingly describes why deep learning is an appropriate tool for the task”

* Project Motivations:
* Project Goal:
* Importance/Reason for Interest:
* Why Use Deep Learning?:

### 2.0 Illustration/Figure (Blythe)

“A well thought out model that communicates the core idea of your project and architecture immediately”

Figure must:

* Illustrate overall model/idea for project
* Aid in making report accessible

\*can use hand drawn illustration or powerpoint

### 3.0 Background & Related Work (Anna)

“Briefly describes 1-2 prior work related to your project to put your project into context. Your descriptions need not be complete but should contain important work related to the project”

* Related work 1:
  + What is it?:
  + Relevance:
* Related work 2:
  + What is it?:
  + Relevance:

### 4.0 Data Processing (Alex)

“Clearly describes and cites sources of data, and the steps you will take to clean and format your data. The descriptions are clear enough for another classmate to follow and reproduce”

* Data Sources:
  + Where were they collected:
  + Description:
* Team Scratch Data Collection:
  + Collection Process:
  + Repurposing Process:
  + Cleaning Process:

### 5.0 Model Architecture (Anna)

“Rough description of the type(s) of neural networks that you will use, and the relevant components”

* Chosen Neural Network(s):
* Potential hyperparameters/layers:

### 6.0 Baseline Model (Anna)

“A reasonable choice of baseline, accompanied by a description of the baseline so that a knowledgeable classmate can either find or reproduce”

* Model to compare neural network against (simple ML model, hand-coded non-ML heuristic model, or other):

### 7.0 Ethical Considerations (Alex)

“Thoughtful consideration of ethical issues in data collection, and the impact of using the model”

* Ethical Issues:
  + Data Collection:
  + Model Use:
* Limitations:
  + Model:
  + Training Data:

### 8.0 Project Plan (Blythe)

“Plan provides enough detail about the breakdown of tasks, internal deadlines, and team member responsibilities so that a new team member can replace an existing one and know roughly what their responsibilities are. Work is divided evenly amongst team members”

* Task Assignment, Current Progress, and Deadlines table
* Team Charter:
  + How will we work together?:
  + Scheduled Meeting times:
  + Communication Method:
  + Code Overwriting Prevention:

### 9.0 Risk Register (Tyler)

“A thorough analysis of the major risks and their solutions. The risks are well aligned to the proposed project”

* Risk (3 - 5):
  + Description:
  + Likelihood:
  + Contingency:

\*can be team or project related

### 10.0 Project Link

“Includes link to public Colab notebook or a public GitHub repo”

* Link:

### 11.0 References

“At least 5 references, formatted consistently using the standard format”