FYP Proposal

## Short Description:

A biographical style, future-predicating web app which uses a machine learning *(ML)* model trained on the different narratives of different people’s lives to estimate what potential future paths exist for a user based upon provided past data. The data for the existing life paths would be extracted from Wikipedia: a vast and well-structured source of biographical information. The web app would feature a thoroughly UX considered Q&A style conversational interface to collect the user’s past life data and then would create a spoof Wikipedia page displaying the new projected biography.

## Aims:

Technical:

* Train my own neural network (most likely supervised and possibly convolutional) using ML5.js and TensorFlow.js.
* Utilise that model in a well-considered and professionally executed UX compliant web application using JS framework React.js.

Social:

* Prove or disprove ML’s ability for art and small-scale purposes outside of image classification, which, in this instance, will be for text prediction.
* Engage users in a discussion in the power of ML and potential while exhibiting the current limits.
* Raise the issue of importance of data used in ML, in reference to the needed diversity of collection of datasets; this should be inferred through the obvious bias of the data source used in this project (Wikipedia)

## Medium/Software:

Form: Web Application

Primary language: JavaScript

Libraries:

* ML5.js
* TensorFlow.js
* React.js
* Node.js
* p5.js

## Research Methods:

ML:

I will continue to undertake secondary research within the field of machine learning to further my mathematical and technical knowledge and understanding of it and aide my application of it in my project. I may also undertake primary research through social media and email if possible, to interact with experienced people in the field and hopefully glean technical aid or guidance.

UX:

I will undertake primary research in form of a survey or similar medium to ensure my user experience is effective. I will also gather secondary information from various sources to choose the appropriate route for my application’s experience design and which rules it should follow.