### **Project: Nólë**

**Leveraging AI to create personalized, multilingual children's books that embed historical learning into engaging stories.**

- **Problem**: Children born in multicultural families do not have easy access to children’s books in the native language of their parents. Additionally, traditional history education can be dry and difficult for children to engage with.

- **Why**:

* **Cultural and Linguistic Preservation**: To support transmission of cultural and linguistic heritage within families living in foreign countries, which is crucial for identity and heritage.
* **Educational Innovation**: By integrating history into compelling stories, we will be tapping into narrative-based learning, which is known to enhance memory and understanding.
* **Accessibility and inclusion**: Making books available in multiple languages and about diverse historical contexts promotes inclusivity and accessibility, especially in cosmopolitan areas like London where more than one third of the population were born abroad.

- **Key Performance Indicators**:

* User engagement: number of books generated, user return rate.
* Educational impact: feedback from users on learning outcomes and engagement.

- **Audience**:

* Multicultural families looking to nurture their children’s multilingual abilities and cultural heritage.
* Educators seeking innovative tools to teach history and other subjects in more engaging ways.

### - **Potential Solution**: Books generated with Nólë will include text AND images. The idea is to use an LLM that was pre-trained in several languages, and further fine-tune it with a dataset comprised of high-quality copyright expired children’s books. The focus of the project will be *on-demand* historical content, so we will build a RAG system that will be queried by the LLM itself, which will extract its main content and will produce a cohesive story in a sequence of steps. Parts of the text will be used as prompt for the image generator which will be called via an API.

- **Data Sources for RAG and Fine-Tuning**:

* Historical texts for RAG; educational curriculum standards for internal prompt engineering; high-quality copyright expired children’s books in multiple languages for fine-tuning.
* User feedback for continuous improvement and fine-tuning of content quality and relevance.

- **Sharing**: this project will be shared in the following communities:

* Primary schools
* Parent groups