

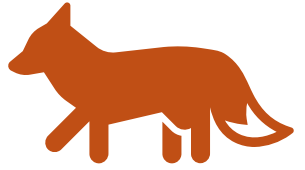
# ByteMentor

ZHAW AI Assistant

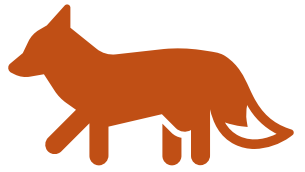


# ByteMentor - Model

- Gemma 3:1b (open sourced, lightweight)
  - English, Text Input/Output
- Fine-tune model
  - Unsloth (Python Lib, Nvidia GPU)
  - Hugging Face (Transformers)

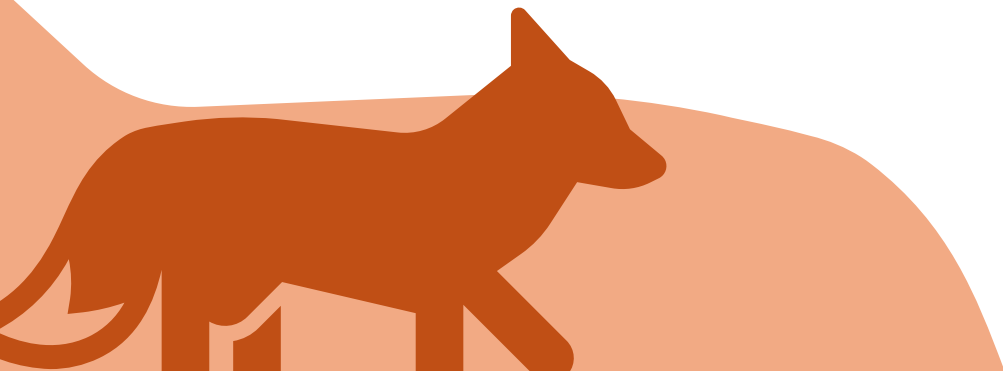


# ByteMentor - Data

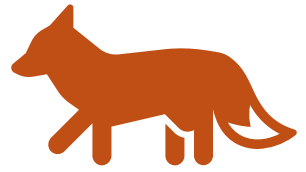


- Pipeline Now
  - Text extraction ~ 1000 ZHAW Documents
  - Translation ~ 70% from «de» to «en»
  - Save to MongoDB
- Pipeline Planned
  - Transformation into Q&A Fomat

```
{  
  "conversations": [  
    { "from": "human", "value": "Can you teach me a cool data science trick?" },  
    { "from": "gpt", "value": "Try `groupby` in pandas. It's great for quick summaries." },  
  
    { "from": "human", "value": "What's your favorite dataset?" },  
    { "from": "gpt", "value": "Titanic. Simple and great for learning basics." }  
  ]  
}
```



# ByteMentor - Web App



- Now:
  - Frontend (chat, chat-history, input)
- Planned;
  - Frontend (UI/UX improvment)
  - Backend(API Endpoints, Performance optimization)

