System Development Overview

Kelly Lockhart and the ADS Team

ADS Users Group Meeting, 16-17 Nov. 2023
System Development Overview

- Overview and management (Kelly)
- Backoffice (Taylor)
- User interface (Tim and Jennifer)
- Machine learning (Felix and Tom)
- Large language model experiments (Kelly)
Development org chart

Tech lead: Kelly

Ingest and curation support
- Matt
- Golnaz (*)
- Mugdha (*)

Back-office & API
- Golnaz (*)
- Taylor
- Fernanda
- Mugdha (*)
- Tom (*)

Search
- Jean-Claude (*)

User interface
- Tim
- Jennifer

DevOps
- Unfilled

Machine learning
- Felix
- Tom (*)
- Golnaz (*)
- Jean-Claude (*)
- Sergi (research associate)
(Re)building the dev team

- Lost one more senior team member (tech lead)
  - Still associated with the team as a research associate

- Hired 4 developers (replacements and new positions):
  - Fernanda de Macedo Alves
  - Jean-Claude Paquin
  - Mugdha Polimera
  - Tom Allen
    - (transitioning from another role)
(Re)building the dev team

- Lost one more senior team member (tech lead)
  - Still associated with the team as a research associate

- Hired 4 developers (replacements and new positions):
  - Fernanda de Macedo Alves
  - Jean-Claude Paquin
  - Mugdha Polimera
  - Tom Allen
Hiring challenges

● One position unfilled: DevOps Engineer
  ○ Not for lack of trying!
  ○ Need to explore other options
    ■ Automation
    ■ Develop internal devops skills
    ■ CfA institutional resources
    ■ Paid AWS support
    ■ Contracting firms
Managing a growing team

Team is now 11 people: nearly as large as the entire ADS team 5 years ago!

- Ongoing education and learning
  - Machine learning seminar
  - Peer programming sessions
  - Blue-sky retreat projects
  - External collaborations to assist with R&D

- Onboarding new team members
  - Developers Guide document
  - Github project templates