Cloud Deployment

Seminary 5

Content

- Flask with DL model deploy
- Web based app deploy
- Game Time

Frameworks

- AWS Lambda: 1 million requests free
- Google Cloud AI Platform $300 in free credits
- Azure Machine Learning $200 credit
- Heroku 0.010$/hour
- Render free 500mins/month (5$ for each extra 1000mins)
- huggingface - Starting at $0.033/h CPU, $0.050/h GPU

DL flask app deploy on render.com

Render

Your fastest path to production

- https://github.com/ileniTudor/trainSaveEvaluateModel.git
- https://dashboard.render.com/

Ionic Angular app on Google Firebase

- https://console.firebase.google.com/


Game Time

Game Setup

- Students are divided in 3 groups
- Each group is assigned a business scenario
- Design an innovative AI solution
- Jury members (2+1)
- 2 minutes elevator pitch **+** 2 minutes q&a
- The winners will get **+1pt** for the tech milestone grade

Game challenges

1. Environmental "Green Tech AI"
2. Education Challenge: "Smart Learning with AI"
3. Social Good Challenge: "AI for Communities"
4. Travel Challenge: "Smart AI Tourism"

Jury

Clearly define the problem and the solution (20p)
Market study – at least 2 competitors (10p)
How are the users? (10p)
Pricing (10p)
Feasibility of the AI Solution (10p)
Details about costs (10p)
Creativity and Originality (10p)
Integration of the Random AI Tool Add-On (10p)
Presentation (10p)

Integration of the Random AI Tool Add-On

- **Random AI tool or concept** incorporated into their app, even if it seems irrelevant
  - *"facial recognition feature that detects how much someone loves pizza."*
  - *"Include an AI-generated poetry feature to cheer up users on rainy days."*
  - *"Add a chatbot that exclusively uses Shakespearean English.*

Milestone 4 (week 11 Eng, 12 Ro)

- Deploy you app/model
  - on cloud
  - Local host
  - Edge device
  - etc...
- Prepare **one page PDF** with the description of the deploy system:
  - List the technologies used
  - The link you can find the app (if deployed on the web)
  - Description of the API call, to access the AI model (if any)
  - Screen shots with the app, calls, results (whatever relevant)