

Developing your AI project

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Lund university,
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Individual projects (examination)

- Evaluate related research (at least 1 article)
- Design project: **use the template!!!**
- Present and review projects (January 22 or 23)

Title

Name(s)

Research aim

Overall research aim:

Improve survival of cardiac arrest patients (overall goal of your research programme)

Specific project aim:

AI system which identifies cardiac arrest cases in calls to emergency services

Related work

Summary:

Read publication related to your work (e.g. paper describing the state of the art solution for your specific task or a study using an AI approach for a similar biomedical/life science question).

Summarize main findings with relevance for your project, e.g. type of model, evaluation strategy, data, main results

Reference(s):

Data

Description:

Recordings of emergency services phone calls (n = 10000)

Transcription and stress level score of selected phone calls (n = 300)

Labels: Stroke diagnosis yes/no

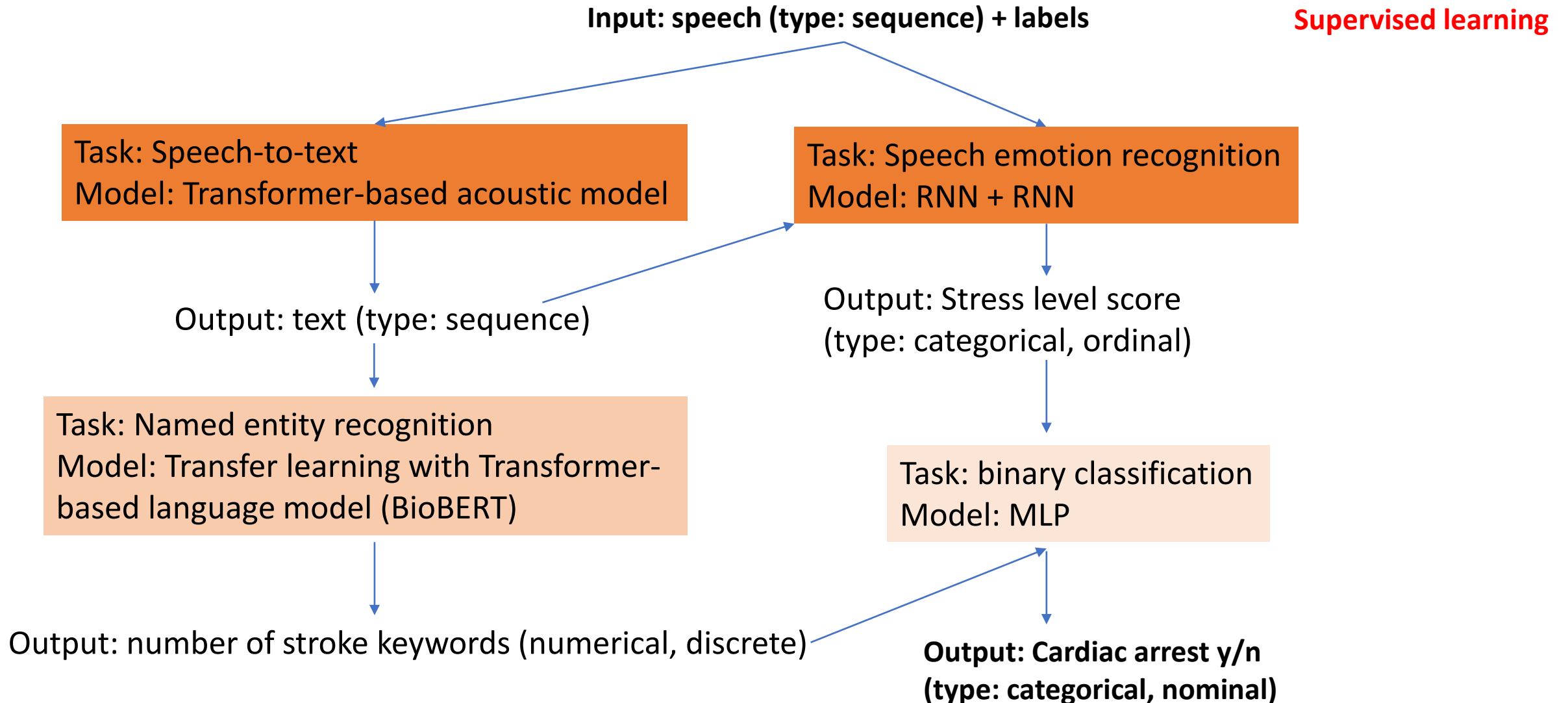
Public data source(s), if any:

Riksstroke quality register

Data preprocessing and augmentation:

Use only first minute of each call

AI strategy



Evaluation

- Confusion matrix
- Precision
- Recall

Technical challenges

Describe expected problems and, optionally, how you plan to address them (e.g. issues related to data/models/evaluation, lack of expertise/infrastructure, etc)

Ethical, legal and societal challenges


- Describe potential issues and how you plan to address them


Beyond this course...

How to learn more about AI

- On-site courses
- Online courses
- Blogs
 - NLP Progress: <http://nlpprogress.com/>
 - Towards Data Science
- Youtube
- Books
- Collaborate with pros

<https://github.com/Aitslab/training>

 Aitslab / training

 Watch ▾

0

★ Star

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<> Code


! Issues 0

 Pull requests 0

 Projects 0

 Wiki

 Security

 Insights


 Settings

Branch: master ▾

training / README.md

Find file

Copy path

 SonjaAits Update README.md

830a97f now

1 contributor

234 lines (109 sloc) | 4.41 KB

Raw

Blame

History



Training resources

Training materials related to data science and artificial intelligence. Resources which are not available for free are marked (\$). You can find links to organizations which provide physical courses (in physicalcourses.md) and links to data sources (in datasources.md)

<https://github.com/COMPUTE-LU/>

Popular repositories

PLGroup_AI4MedLife-journalclub

Public

info for the COMPUTE peer-learning group "AI for Medicine and Life Sciences - Journal Club"

☆ 6

AI4MedLife_imaging_2021

Public

a repo for the course "AI for Medicine and Life Sciences - AI for Image and Video Data" (fall term 2021) at the COMPUTE research school, Lund University (<https://www.compute.lu.se/>).

● Jupyter Notebook ☆ 3 🍴 3

PLGroup_PythonforBeginners

Public

material for and from the peer-learning group Python for Beginners

● Jupyter Notebook

jupyter-course

Public

Forked from [mlund/jupyter-course](#)

Jupyter Course

● Jupyter Notebook 🍴 1

.github

Public

overview page for COMPUTE research school

AI4MedLife_intro_2023

Public

repo for the PhD level course Artificial Intelligence in Medicine and Life Sciences -Introduction (NTF012F) at Lund University, Dec 2023

Lund has a rich environment of organizations supporting AI in medicine and life sciences

COMPUTE PhD School: <https://www.compute.lu.se/>

AI Lund: <http://ai.lu.se/>

HubAI <https://hubai.se/>

LUBI <https://www.lubi.lu.se/>

LU eScience Hub

LU profile area Natural and Artificial Cognition

LU profile area Nature-based Future Solutions

LTH profile area Pillars of AI and Digitalization

LTH profile area Engineering Health

eHealth@LU: <http://www.ehealth.lth.se>

RSG-Sweden - Lund: <http://rsg-sweden.iscbsc.org/>

eSSENCE: <http://essenceofscience.se/>

WASP/WASP-HS: <https://wasp-sweden.org/> and <https://wasp-hs.org/>

<https://www.compile.lu.se/events/>

Events

20

December

From: 2023-12-20 12:00 to 13:15 | Seminarium

AI Lund lunch seminar: How context affects Clarity and Understanding in software development environments

17

January

From: 2024-01-17 12:00 to 13:15 | Seminarium

AI Lund lunch seminar: A Signing Avatar on Stage in Realtime

24

January

From: 2024-01-24 09:30 to 15:30 | Konferens

AI Lund Fika-till-Fika workshop: AI in Public sector 2024

31

January

From: 2024-01-31 12:00 to 13:15 | Seminarium

AI Lund lunch seminar: AI tools and the impact on Education – what are our opportunities, responsibilities and fears?