



Adrian Mladenić Grobelnik

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Date of birth: 10/04/2003 **Nationality**: Slovenian, Croatian

ABOUT ME

Driven and creative junior A.I. researcher & engineer with 4+ years of experience researching, adapting and deploying state of the art A.I. systems. Eager to support academia and industry in realizing impactful A.I. applications. Published 4 papers, deployed 2 interactive full stack A.I. architectures.

WORK EXPERIENCE

[27/07/2020 – Current]

Junior Artificial Intelligence Researcher & Engineer

Jozef Stefan Institute

Primarily, I focus on researching, adapting and deploying Artificial Intelligence systems. My domain of expertise is Natural Language Processing, commonsense A.I. and topic popularity prediction.

Secondarily, my role is to develop and deploy full stack web applications with interactive data visualizations. Examples include "multicomet.ijs.si" and "at.ircai.org".

Moreover, I occasionally advise and assist PhD students in writing their scientific articles. Furthermore, I emphasize sharing my work with the scientific community through publishing and presenting research papers at the relevant conferences. So far, I have published 3 papers titled "Next Big Thing in Science", "MultiCOMET - Multilingual Commonsense Description" and "Understanding Text Using Agent Based Models".

EDUCATION AND TRAINING

[21/08/2009 – 31/07/2021]

High School Graduate & Former Head Boy

British International School of Ljubljana <https://britishschool.si/>

Address: C. 24. Junija 92, 1231, Ljubljana, Slovenia

LANGUAGE SKILLS

Mother tongue(s): Slovenian , Croatian

Other language(s):

English

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

French

LISTENING B1 READING B1 WRITING B1

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Python | Java | C/C++ | HTML5/CSS, Javascript | TypeScript | Angular framework | Node.js | Bootstrap | D3 | Apache ECharts | PyTorch | Git | Hugging Face Transformers

PUBLICATIONS

[2019] **[The Next Big Thing In Science](#)**

Reference: Conference on Data Mining and Data Warehouses, 2019

This paper presents an approach to predicting the future development of scientific research based on scientific publications from the past two centuries. We have applied machine learning methods on the Microsoft Academic Graph dataset of scientific publications.

Link: http://videlectures.net/sikdd2019_mladenic_grobelnik_next_big_thing/

[2020] **[MultiCOMET – Multilingual Commonsense Description](#)**

Reference: Conference on Data Mining and Data Warehouses, 2020

This paper presents an approach to generating multilingual commonsense descriptions of sentences provided in natural language. We have expanded on an existing approach to automatic knowledge base construction in English to work on different languages.

Link: http://videlectures.net/sikdd2020_mladenic_grobelnik_multicomet/

[2021] **[Understanding Text Using Agent Based Models](#)**

Reference: Conference on Data Mining and Data Warehouses, 2021

The paper proposes a novel approach to text understanding and generation focusing on short and simple stories. The proposed approach attempts to understand and generate stories by creating an explainable, agent-based world model of the story.

Link: https://videlectures.net/sikdd2021_mladenic_grobelnik_text/

[2022] **[SLOmet – Slovenian Commonsense Description](#)**

Reference: Conference on Data Mining and Data Warehouses, 2022

This paper presents Slovenian commonsense description models based on the COMET framework for English. Inspired by MultiCOMETs approach to multilingual commonsense description, we finetune two Slovenian GPT-2 language models.

PROJECTS

[31/07/2020 – 31/03/2021] **AI & Assistive Technology in Media**

I developed a full stack web application providing real-time interactive media coverage for the taxonomy of assistive technology in the form of an interactive visualization. This was done in collaboration with University College London and the International Research Centre On Artificial Intelligence.

Link: <https://at.ircai.org/>

[31/07/2020 – 31/08/2022] **MultiCOMET Web**

I created and deployed a full stack interactive web application for multilingual commonsense description. Users can input any sentence, and request seven types of commonsense descriptions in a variety of languages. This was done under the scope of the project Development of Slovene in a Digital Environment.

Link: multicomet.ijs.si

HONOURS AND AWARDS

- [21/09/2016] **Honorable Mention Awarding institution:** Junior Balkan Olympiad in Informatics
After competing with the best under-18 competitive programmers in the Balkans, I received an honorable mention. Moreover, I was one of the youngest competitors at the age of 13.
Link: <http://jboi2016.cs.org.mk/>
- [11/01/2018] **2nd Placed Junior Competitive Programmer in Slovenia Awarding institution:** Association for Technical Culture of Slovenia
Link: <https://www.zotks.si/>
- [08/06/2018] **1st Placed Junior Competitive Programmer in Slovenia Awarding institution:** Association for Technical Culture of Slovenia
Link: <https://www.zotks.si/>
- [23/03/2019] **Silver Medal Awarding institution:** ACM High School Competition in Computer Science and Informatics
Link: <https://rtk.ijs.si/2019/rezultati.html>
- [04/02/2018] **1st Placed Argumentative Essay Awarding institution:** World Scholars Cup, Ljubljana Regional Round
Link: <https://www.scholarscup.org/>
- [03/02/2019] **1st Placed Debate Team Awarding institution:** World Scholars Cup, Ljubljana Regional Round
Link: <https://www.scholarscup.org/>
- [23/06/2018] **2nd Placed European Team Awarding institution:** World Scholars Cup, Kuala Lumpur Global Round
Link: <https://www.scholarscup.org/>
- [21/06/2019] **3rd Placed European Team Awarding institution:** World Scholars Cup, The Hague Global Round
Link: [scholarscup.org](https://www.scholarscup.org/)
- [21/11/2018] **1st Placed Slovenian Awarding institution:** World Scholars Cup, Yale University Final Round
Link: [scholarscup.org](https://www.scholarscup.org/)

SOCIAL AND POLITICAL ACTIVITIES

- [15/02/2019 – 17/05/2019] **12th Regional Session of European Youth Parliament Ljubljana, Slovenia**
Ljubljana, Slovenia
The European Youth Parliament is a peer-to-peer educational programme that brings together young people from across Europe to debate the pressing issues of our time. I participated in their sessions as a delegate, debating a variety of issues European society presently faces and proposing a multitude of solutions drafted in a comprehensive resolution document.
Link: <https://eypslovenia.org/>
- [14/07/2019 – 19/07/2019] **5th National Selection Conference of European Youth Parliament Slovenia**
Ljubljana, Slovenia
Link: <https://m.facebook.com/ljubljana2019/community/>

[20/09/2019 – 29/09/2019] **91st International Session in Hamburg, Germany** Hamburg, Germany

Link: <https://eyp.org/90th-international-session-in-hamburg-germany/>

[19/08/2021 – 26/08/2021]

Thessaloniki International Forum '21-7th International Forum of EYP Greece

Thessaloniki, Greece

Link: <http://www.eypgreece.org/en/page/1063/call-for-delegates-tif-21>

HOBBIES AND INTERESTS

Attending Computer Science Conferences

Guitar

Swimming

Piano

Skiing