MAHAMMAD NAMAZOV
MSc. Artificial Intelligence and Robotics

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As a recent graduate from MSc. in AI and Robotics Engineering at Sapienza University of Rome, I have a strong interest in pursuing an academic career in NLP research field. Having more than 3 years of experience in AI and NLP research area, I conducted my thesis research in the Computational Argumentation field of NLP. With sound academic background in the field and enthusiasm for research in NLP area I am open to new challenges to enhance my abilities and knowledge through research career in this direction of AI.

EDUCATION

Sapienza University of Rome   Rome, Lazio, Italy
Artificial Intelligence and Robotics, M.Sc.   *March, 2023*

- **Thesis:** Audience Aware Counterargument Generation
- **Supervisor:** Prof. Christian Napoli, Prof. Henning Wachsmuth
- **Relevant Courseworks:** Neural Networks, Natural Language Processing, Machine Learning, Deep Learning and Applied AI, Artificial Intelligence

Paderborn University   Paderborn, NRW, Germany
Computer Science, M.Sc. (Erasmus)   *September 2021 – August 2022*

- **Thesis:** Audience Aware Counterargument Generation
- **Supervisor:** Prof. Christian Napoli, Prof. Henning Wachsmuth
- **Relevant Courseworks:** Statistical Natural Language Processing, Planning and Heuristic Search

Istanbul Technical University   Istanbul, Turkiye
Control and Automation Engineering, B.Sc.   *August, 2018*

RESEARCH EXPERIENCE

Research Student   Source   Paderborn, NRW, Germany
Social Computing Lab., Paderborn Univeristy   *March 2022 – November 2022*

- Built an audience adaptive counterargument generation model during the research. The model focuses on moral beliefs of audience along with input argument, while generating counterargument;
- Built a novel approach to feed complex models with huge datasets for machines with limited sources. This approach was built, because of the limited resources that was lower than system requirements of the model;
- Solved several incompatibility issues among complex AI models
- BERT F1 (0.87) and F1 (0.97) accuracy results were achieved for generation and classification of arguments, respectively
- Note: Source code and the thesis report is available at the given Source

TECHNICAL SKILLS

Languages	Python, C, C++
Frameworks	Pytorch, Tensorflow, Huggingface, Pandas
Libraries	Scikit Learn, Numpy, NLTK, Spacy, OpenCV
Dev Tools	VS Code, PyCharm, Git

LANGUAGES

Azerbaijani	Mother tongue
Turkish	Native speaker
English	Fluent, Proficient to work
German	Intermediate, Conversational
Russian	Intermediate, Conversational

Awards & Achievements

Specialization in Natural Language Processing   verify at DeepLearning.ai
Vector Spaces, Probabilistic Models, Seq2Seq and Attention Models   04.2023

ERASMUS+ Scholarship Winner   Rome, Lazio, Italy
Exchange Student at Paderborn University   09.2021 – 08.2022

IEEE Conference Paper   Istanbul, Turkiye
"The Effect of Controller Selection on the Regenerative Braking Energy of Railway   11.2018
Traction Motors" by Namazov M., Soylemez M.T., Canevi M.

C Programming Language   Istanbul, Turkiye
C & Programmers Association   04.2017

Scholarship Winner   Istanbul, Turkiye
British Petroleum program on study of Azerbaijani Youth in abroad   09.2014 – 08.2018

Research Projects   My GitHub

✎ Named Entity Recognition   [Source Code]

- I built BERT-based token classifier to identify Named Entities in the given sentences;
- Data was annotated with PER, LOC, ORG, MISC and O for Person, Location, Organization, Miscallenous and Others, respectively (including B- and I- for beginning and intermediate tokens);
- I obtained F1(0.92) score results on the development dataset with macro average on classification task with 9 classes

Pytorch | Cuda | HuggingFace | Scikit Learn | Numpy

✎ Language Identification   [Source Code]

- I developed Bi-LSTM based sequence classification for language identification task based on HuggingFace LID dataset
- Dataset includes texts from 20 languages, such as english, chinese, german, italian, bulgarian, etc.
- As a result of training of 40 epochs, F1 score of 0.98 was achieved

Pytorch | NLTK | Spacy | Bi-LSTM | Seaborn | PyCharm | Google Colab | HuggingFace

✎ BIO Classification   [Source Code]

- I developed Bi-LSTM based classifier to classify tokens in argumentative texts according to their position in arguments;
- Where B, I and O stand for beginning, in and out of the argument, respectively;
- I developed 2 Bi-LSTM encoders, which the first one encodes tokens and the latter encodes their POS tags;
- Utilizitation of this technique let me outperform the baseline (F1(0.57)) with F1(0.74)

Pytorch | NLTK | Spacy | Bi-LSTM | Seaborn | PyCharm | Google Colab

References

Prof. Henning Wachsmuth   **Prof. Christian Napoli**
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