Mariia Ponomarenko

[in] LinkedIn | 📱 416-953-1624 | ✉ mariiaponomarenko10@gmail.com | ⦿ GitHub

Skills

- Programming languages: Python | R | C# | C++ | JavaScript
- Tools: PyTorch | TensorFlow | Scikit Learn | NLTK | Tableau
- Machine learning: clustering and classification, natural language processing
- DevOps: Docker
- Databases: MSSQL | PostgreSQL | MongoDB
- Web Frameworks: ASP.NET Core | Django
  Strong mathematical knowledge, analytical mindset, good understanding of data structures and algorithms

Experience

Machine Learning Research Intern   University of Toronto   *Toronto, ON, Canada*   **05/2022 - 12/2022**

Worked on an unsupervised learning approach for categorizing research proposals and recommending papers based on similar publications.
- Built an unsupervised model for text categorization task in order to classify an unseen project proposal using **LDA (topic modeling), KMeans, Transformers.**
- Designed and implemented a recommendation system for recommending papers based on the abstract of a particular publication. Was working on text-similarity task using various algorithms, such as TF-IDF , Word2Vec, Doc2Vec, LDA and BERT for feature extraction.

NLP Researcher   Ivan Franko National University of Lviv   *Lviv, Ukraine*   **09/2021 - 05/2022**

- Conducted a comparative analysis of different algorithms such as Logistic Regression, Decision Tree and LSTM in order to find the most efficient way to detect emotions in text. Used **TensorFlow** and **Scikit Learn** libraries for building models.

.NET Software Engineer   SoftServe   *Lviv, Ukraine*   **10/2021 - 05/2022**

- Designed and implemented various features of the website for the client who sells alarm monitoring services using latest technologies of **C#, ASP.NET Core, JavaScript, Angular, MSSQL.**

Education

Bachelor of Science   Ivan Franko National University of Lviv   *Lviv, Ukraine*   **09/2019 - 06/2023**
- Major in Computer Science

Exchange student   University of Toronto   *Toronto, ON, Canada*   **05/2022 - 12/2023**
- Major in Computer Science
  - CSC485 Computational Linguistics
  - CSC495 Computer Science Project (NLP)

Awards

Mitacs Globalink Research Award (2022)
The Mitacs Globalink Research Award (GRA) supports research collaborations between Canada and select partner organizations. Received an award to conduct a 12-week NLP research project under supervision of Dr.Annie Lee (University of Toronto).

Conferences

An Unsupervised Learning Approach for Categorising Research Proposals and Recommending Papers   **WiNLP (2022)**
TMLS (2022)
PDF

Languages

- **English - C1**   • **Ukrainian - native speaker**