

# NLP Data Engineer

## WHO WE ARE

EarlyTracks is a leading provider of innovative solutions that empower care institutions in efficiently managing and leveraging high-quality medical records. With our unwavering focus on standardized and 'fit-for-use' medical records, we offer a unique value proposition to our esteemed client base of 20+ hospitals in Belgium.

At EarlyTracks, we pride ourselves on our cutting-edge expertise, rooted in our university spin-off background in Natural Language Processing (NLP). This expertise serves as the bedrock of our comprehensive offerings, which encompass not only advanced ML-based solutions, but also terminological resources and intelligently crafted interfaces designed to streamline information management processes.

As the medical IT landscape rapidly evolves, EarlyTracks stands at the forefront, harnessing this momentum to drive our own growth trajectory. We are actively expanding into new markets and developing innovative solutions that shape the future of healthcare, ensuring our clients stay ahead of the curve.

Located in the vibrant city of Brussels, in close proximity to the prestigious EU district and Merode Metro Station, EarlyTracks offers a stimulating work environment at the heart of Europe. Join our dynamic team and embark on an exciting career where you can make a meaningful impact in the healthcare industry.

## ABOUT THE JOB

As an NLP Data Engineer, you will play a crucial role in the development and enhancement of our Natural Language Processing Models but also to integrate existing technologies in order to build the best solutions for our customers.

## YOUR RESPONSIBILITIES WILL BE

- Conduct research & development projects which improve EarlyTracks' existing solutions.
- Contribute to designing, building, evaluating, shipping, and refining EarlyTracks' products with hands-on NLP development ;
- Train and fine-tune NLP models using large-scale medical datasets. Evaluate model performance and optimize for accuracy, precision, and recall. Explore techniques for transfer learning and domain adaptation.
- Leverage your knowledge of data models to further improve medical information production and management ;
- Prototype new approaches and productionalize solutions at scale (research and development) ;

- **Assess existing models and technologies** in order to drive an informed make or buy decision (LLM, NLP models, etc).
- **Collaborate with multidisciplinary teams**, including software engineers, machine learning engineers, data analysts, and healthcare professionals, to build new product features that advance our mission of producing structured medical records ;
- **Peer coaching through code reviews** and sharing of knowledge. Produce high-quality code that is well-documented, easy to maintain, and follows best practices for software development ;
- **Conduct rigorous testing and validation of NLP models and systems** to ensure reliability and robustness. Address any performance issues or limitations, and provide solutions to improve system efficiency.
- **Stay updated with the latest industry trends and best practices** in NLP. Share your expertise through presentations, documentation, and training sessions to empower the team and support the growth of EarlyTracks.

## WHO YOU ARE

*Note: If you are confident that you have the skills and knowledge to perform the duties of this role but do not match one of the criteria below, do not hesitate to apply and explain in your application why you consider your experience remains relevant.*

- Master degree in Computer Science, Data Science, Computational Linguistics, or a related field ;
- Prior experience in Natural Language Processing ;
- In-depth knowledge of NLP techniques and frameworks, including text preprocessing, entity recognition, named entity linking, relation extraction, etc. ;
- Familiarity with deep learning models for NLP ;
- Proficiency in Python and experience with relevant libraries and frameworks (e.g., spaCy, TensorFlow, PyTorch). Ability to implement and optimize algorithms efficiently ;
- Strong problem-solving skills, ability to analyze complex data, and propose innovative solutions. Attention to detail and a passion for accuracy in processing data ;
- Excellent communication skills to effectively collaborate with cross-functional teams and stakeholders. Ability to explain complex concepts to non-technical individuals and influence decision-making ;
- Keen interest in staying up-to-date with the latest advancements in NLP ;
- Mastering French and English.

## PICKLIST OF ASPECTS THAT WILL MAKE YOU EVEN MORE UNIQUE

- Experience in the healthcare field (medical management preferably) ;
- Experience with data mining and segmentation techniques ;
- Knowledge of another Belgian national language.

## WHAT'S IN IT FOR YOU

- Work in a company that is **driven by its mission** (improving the quality of medical records) more than anything else ;
- Work in a company that is **scaling** quickly with a mature technological vision and growing developments needs;
- Benefit of a working environment that is **open, invested** in people and where **your opinion matters** ;
- Enjoy **flexible working conditions** (hours and location) to find the work-personal life balance that is the best for you ;
- Last but not least, benefit of a **competitive salary**

## INTERESTED?

Send an email with your CV to [jobs@earlytracks.com](mailto:jobs@earlytracks.com), we'd love to meet you!

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