NLP Engineer - DUALARITY

Location: Palo Alto or Ireland

About the Team

At DUALARITY, we are reimagining the role of AI in sensory enhancement by developing innovative wearable devices that combine advanced AI with real-time processing. Our team is at the forefront of AI-powered auditory and sensory augmentation, providing users with intelligent solutions that enhance their daily experiences. Through our integration of AI-driven natural language processing (NLP), we aim to revolutionize how users interact with their devices and environments, ensuring seamless communication and understanding.

Join our team to develop cutting-edge NLP models that provide real-time speech-to-text solutions, context-aware communication, and personalized auditory feedback for users with hearing impairments and sensory challenges.

About the Role

DUALARITY is seeking an **NLP Engineer** to design and implement natural language processing models that power our real-time communication and auditory augmentation features. As an NLP Engineer, you will work on developing speech recognition, speech-to-text, and natural language understanding (NLU) systems that ensure users can interact effortlessly with their devices. Your work will play a critical role in providing hearing-impaired users with real-time transcription and intelligent auditory feedback, helping them stay connected in various environments.

As an **NLP Engineer**, you will:

- **Develop and optimize NLP models** for real-time speech recognition, speech-to-text transcription, and natural language understanding on mobile and wearable platforms.
- Design models that can handle **noise, multiple speakers, and varying environments**, ensuring high-quality transcription and contextual awareness for users.
- **Collaborate with AI/ML teams** to integrate NLP solutions into our AI-driven wearable devices, providing users with seamless communication and auditory enhancement.
- Optimize NLP algorithms for **low-latency performance**, ensuring real-time transcription and understanding while operating efficiently on edge devices.

- Research and implement the latest advancements in **speech recognition, NLU**, and conversational AI, applying them to real-world sensory augmentation challenges.
- Work closely with **UX/UI designers** and **software engineers** to ensure that NLP models provide an intuitive and fluid experience for users with hearing impairments.

You will thrive in this role if you:

- Have a **Master's or Ph.D. in Computer Science, Linguistics, AI**, or a related field, with strong experience in **natural language processing**.
- Are proficient in **Python** and NLP frameworks such as **TensorFlow, PyTorch, Hugging Face Transformers**, or similar tools for developing speech and language models.
- Have hands-on experience developing **speech recognition** or **speech-to-text systems** that are optimized for real-time applications.
- Understand how to **build and optimize NLP models** for mobile or edge devices, focusing on performance, accuracy, and scalability.
- Are passionate about improving communication for individuals with hearing impairments, using NLP to deliver contextually aware and personalized auditory feedback.
- Are familiar with **natural language understanding (NLU)**, **language models**, and **speech synthesis**, particularly in real-time or low-latency environments.
- **Bonus**: Experience with **multilingual NLP** or **acoustic modeling** to improve speech recognition for users in diverse environments.

About DUALARITY

DUALARITY is at the forefront of developing intelligent, AI-powered wearable devices that enhance human senses. By combining advanced AI with intuitive design, we aim to empower individuals with hearing impairments and sensory challenges to live safer, more connected lives.

Our commitment is to human-first AI: developing technology that adapts to the user's needs, ensuring that DUALARITY's solutions improve not just function, but the quality of life. By focusing on real-time auditory and visual processing, we provide individuals with tools to interact with their world in a way that is personalized, secure, and seamless.

At DUALARITY, diversity of perspectives and backgrounds is key to building solutions that serve the full spectrum of human experiences. We are committed to fostering an inclusive environment where creativity, innovation, and bold ideas flourish.

Compensation

Competitive salary + Equity opportunities.