AI Data Engineer

Your tasks

At Continental's Budapest Artificial Intelligence Development Centre within the Autonomous Mobility business area, we develop **next-generation automotive software** to make **automated driving safe, scalable, and cost-effective**. We are seeking passionate and innovative professionals to shape the future of autonomous mobility.

Join one of our **Data engineering** team where we focus on building and maintaining high-performance data infrastructure to support the development of automated driving functions. We process data from multiple sensor modalities—including **LiDARs, radars, and cameras**—and ensure its quality, consistency, and usability across various downstream teams. This includes enabling large-scale **automotive data labeling workflows**, such as **lane and object annotation**, and supporting **sensor calibration processes** to ensure synchronized and accurate inputs. We develop scalable **data pipelines** that identify relevant driving scenarios and edge cases, enrich raw data with metadata, and ground truth information. We also tackle state-of-the-art challenges by automating complex processes such as label quality validation and data selection through intelligent, data-driven techniques. Our solutions are built on a cloud-native stack, primarily leveraging **AWS and Python**, to provide efficient access to structured, high-quality datasets for AI and perception system development.

Our work includes

- Processing and validating **multimodal sensor data** from LiDARs, radars, and cameras
- Developing automated **data labeling pipelines** and enrichment tools to extract edge cases
- Creating and managing searchable, high-quality **datasets for training and validation** of AI models
- Integrating all **data solutions** in a cloud-native stack using Python

Your Tasks

- Design, develop, and maintain high-performance data pipelines tailored to automotive datasets
- Collaborate closely with AI engineers, perception experts, and labeling teams to enable data-driven development
- Process and filter sensor data to extract meaningful scenarios and enrich datasets for model training
- Implement cloud-native solutions (AWS-based) for efficient data storage, processing, and access
- Apply your understanding of sensor calibration, automotive labeling standards, and data quality validation
- Continuously improve data workflows, from ingestion to consumption, by turning requirements into production-ready solutions

Job ID
REF81581C

Field of work
Information Technology

Location
Debrecen

Leadership level
Leading Self

Job flexibility
Hybrid Job

Legal Entity
Continental Autonomous Mobility Hungary Kft.

Your profile

- BSc/MSc in Computer Science, Electrical Engineering, or a similar field—or equivalent professional experience
- 3+ years of experience in software development, preferably in data-intensive environments
- Experience in automotive data labeling workflows, such as lane annotation, object tracking, or ground truth generation
- Practical experience working with multimodal sensor data (LiDAR, radar, camera)
- Understanding of sensor calibration techniques and data synchronization
- Strong Python programming skills
- Good written and spoken English
- Comfortable working independently and as part of an international, cross-functional team

Nice to Have

- Experience with AWS
- Familiarity with agile software development
- Background in machine learning or AI-based perception systems

Our offer

What We Offer

- Participation in exciting, highly innovative projects.
- Personal career development and a challenging role with end-to-end responsibility.
- Ability to directly deliver software into real products.
- Opportunity to see your ideas turn into reality with our test vehicle.
- Continous development with access to numerous trainings, including technical skills, soft skills and language skills.
- A friendly, respectful and collaborative work environment that encourages creativity and innovation.
- Competitive compensation and a wide range of benefits, including:
  - Private health insurance
  - Bonus system
  - Employee discounts
  - Sport pass support
  - Easily accessible office location

Ready to drive with Continental? Take the first step and fill in the online application.

About us

Continental develops pioneering technologies and services for sustainable and connected mobility of people and their goods. Founded in 1871, the technology company offers safe, efficient, intelligent and affordable solutions for vehicles, machines, traffic and transportation. In 2024, Continental generated preliminary sales of €39.7 billion and currently employs around 190,000 people in 55 countries and markets.