

dotOcean – AI Engineer

AI Engineer

dotOcean is growing and we are hiring an AI Engineer to pioneer human-robot communication for autonomy. You'll build intelligent systems translating robot perception into actionable insights, define next-gen navigation for multi-agent systems, and develop real-time decision models for complex environments. Collaborate with engineers and defense partners to advance AI-driven solutions.

Your Skills

Key Responsibilities

- Develop AI solutions that enables communication between humans and autonomous agents using LLMs
- Facilitate the access and retrieval of data out of the data warehouse for a user by using their own natural language
- Design and implement AI algorithms that converts sensor perceptions into human-understandable information like text or speech.
- Define the next-gen swarming algorithms using the latest state of play in the AI world
- Use GANs for synthetic maritime image generation
- Applies Neural Radiance Field (NeRFs) for scene reconstruction or viewpoint reconstruction from other agents in the swarm for sharing knowledge about their perception.

Key Competences

- Proactive and Solution-Oriented Thinking – Takes initiative to **identify improvement opportunities** and acts before problems escalate.
- Complex Problem Solving – Analyzes and resolves strategic challenges with a **long-term vision**, applying **critical thinking** and preventive actions.
- Data and Technology Integration – **Optimizes processes** by leveraging data analysis and technological solutions, improving data quality and utilization.
- Quality Assurance and Process Improvement – Tests, analyzes, and refines processes to **maintain high-quality standards** and drive continuous improvement.
- Collaboration and Adaptability – Works effectively in cross-functional teams and **adapts flexibly to changing circumstances**.

Technical Competences

- Experience with OOP, advanced data structures, and algorithms in **Python and C++** for high-performance AI models.
- Working with **Scikit-learn, XGBoost, TensorFlow/PyTorch** for pattern recognition, predictions, and AI decision systems.

- Applying **Transformers (BERT, GPT, T5) and GANs (StyleGAN, CycleGAN)** for NLP, image generation, and domain adaptation.
- Developing and deploying AI models with **Docker, Kubernetes, GitLab CI/CD, MLflow/Kubeflow** for scalable production implementations.
- Working with **parallel computing (Python multiprocessing, Rust async), C++ optimization, and low-latency streaming** for AI applications.

Our Talents

- At dotOcean, you'll work with the **latest technologies** in autonomous systems, automated operations and cloud technology.
- We're a growing team focused on **collaboration, coaching and personal development**. And yes, there's always laughter!
- We foster an open environment where **active listening** and the sum of all parts are valued. You'll grow both professionally and personally.
- After a week of hard work, we often head to the café to unwind. Our **party committee** also organizes fun activities and events.
- With 40-hour workweeks and 12 additional vacation days per year, we ensure you have the perfect **work-life balance**.

<https://dotocean.eu>