



A Community for AI Innovation

About United AI

United AI is a club founded by some of the first students of the new **Artificial Intelligence** major at **TH Deggendorf**. Our primary goal is to provide opportunities for students to explore, develop, and apply AI technologies in real-world projects. Although most of our members study AI, we have successfully attracted students from diverse fields, making United AI a multidisciplinary research hub.

We have gained access to state-of-the-art workspaces, including:

- **Deep Learning Lab** – High-performance computing for AI research, featuring RTX A5000 GPUs.
- **ITC1 Coworking Space** – A hub for collaboration with startups and companies.

Our Working Groups

Our club is organized into 4 specialized branches to promote efficient project management and collaboration.

Students 4 Students

A knowledge-sharing initiative that organizes:

- **Workshops** on topics such as Git, Reinforcement Learning, PyTorch, and Hugging Face.
- **Newsletters, articles, and tutorials** on the latest AI trends.
- **AI-driven evaluations** to enhance learning outcomes.

Algorithms

Dedicated to innovative AI research, this branch focuses on:

- **AI Merch** – Generating AI-designed fashion using Generative Adversarial Networks (GANs).
- **Reinforcement Learning** – Developing intelligent agents for autonomous decision-making.

Robotics

Focused on human-machine interaction and autonomous systems, this branch works on:

- **Mirobot WLakata 6DOF Robotic Arm** – Utilizing Vision-Language Models (VLM) and Reinforcement Learning.
- **Nvidia Jetbot with Jetson Nano** – Developing wheeled robots for self-navigation.
- **Drone Mine Detection** – Detecting landmines using AI-powered drones.

Smart City

As part of the Bavarian “Smart City - Smart Region” project, our AI-powered solutions aim to enhance urban infrastructure by:

- **Deggendorf App** – Providing real-time city data such as weather, events, and water levels.

- **LiDAR Mapping** – Creating a digital twin of Deggendorf using RS-LiDAR 16 and ROS2.

Some of Our Projects



Collaboration and Future Goals

United AI collaborates with startups, universities, and industry leaders to drive AI research forward. Our future goals include:

- Organizing AI hackathons and competitions.
- Strengthening partnerships with top tech companies.
- Expanding real-world AI applications across various industries.

Join Us!

We are always looking for passionate AI enthusiasts to join our community. Whether you're a beginner or an expert, there is a place for you at United AI.

How to Join:

1. Join our Discord Server
2. Explore our projects and find your passion
3. Contribute and innovate with us!

Contact Information

- **Contact Us:** united-ai.net/kontakt
- **Location:** TH Deggendorf, Germany