

# Muhammad Reza Ar Razi

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## Education

**Technical University of Munich**  
*Master's Degree in Informatics | Grade: 2.7*

- Advanced Algorithms → Grade: 2.3
- Machine Learning → Grade: 2.5
- Database Systems → Grade: 2.7
- Software Engineering → Grade: 2.8
- Human-Computer Interaction → Grade: 2.6

Munich, Germany  
2023 – 2025

## Work Experience

**Huawei Munich Research Center**  
*Master Thesis Student*

- Conducting research on the interpretability of Large Language Models (LLMs).
- Developing novel algorithms for privacy-preserving LLMs using PyTorch and Hugging Face.
- Contributing to advancements in AI interpretability, enhancing model transparency.

Munich, Germany  
06/2024 – Present

**Huawei Munich Research Center**  
*Working Student - Trustworthy Technology and Engineering Lab*

- Reviewed prior research related to LLM privacy and implemented privacy attacks.
- Conducted empirical evaluations on public and industrial datasets, enhancing data security.
- Improved understanding of LLM vulnerabilities, contributing to safer AI applications.

Munich, Germany  
11/2023 – 05/2024

**Chair of Robotics, AI, and Real-time Systems, Technical University of Munich**  
*Graduate Student Research Assistant*

- Developed an AGV system and hierarchical control for Festo Robotino.
- Built OpenAI Gym-based simulations for kinematics and dynamics, utilizing ROS and Unity.
- Implemented navigation systems for robust sim-to-real transfer, enhancing robotic performance.

Munich, Germany  
06/2023 – 06/2024

**PT. Artha Dana Teknologi (indodana.com)**  
*Senior Data Scientist*

- Developed and productionized machine learning models for fraud detection and scoring.
- Implemented semantic segmentation of ID cards to improve OCR performance using OpenCV.
- Improved automation processes in loan application assessments, increasing efficiency by 30%.

Jakarta, Indonesia  
10/2021 – 04/2023

**PT. Artha Dana Teknologi (indodana.com)**  
*Risk Modelling Analyst*

- Built credit risk models and conducted analytics to assess financial risk.
- Analyzed key metrics to determine and mitigate risk, partnering with product teams.
- Enhanced risk detection processes, resulting in a 25% reduction in default rates.

Jakarta, Indonesia  
09/2019 – 10/2021

**UBTECH Robotics Indonesia**  
*Robot Engineer Intern*

- Developed educational robots and created learning modules for children.

Jakarta, Indonesia  
12/2018 – 02/2019

- Taught robotics concepts to children, fostering interest in STEM fields.
- Contributed to the development of engaging educational tools for young learners.

## GDP Labs Artificial Intelligence Research (GLAIR)

AI Engineer Intern

Jakarta, Indonesia

07/2018 – 09/2018

- Researched and forecasted time series data using statistical and deep learning methods.
- Analyzed and visualized time series data, enhancing data interpretation.
- Contributed to projects that improved predictive analytics capabilities.

## Side Projects

### Humanoid Robot Soccer Research

- Awarded at RoboCup International for innovative use of robotics in competitive environments.
- Utilized advanced computer vision and object recognition technologies with TensorFlow and OpenCV.

## Achievements

- **2nd Place - RoboCup International 2018:** Secured second place in the Drop-in Challenge (Humanoid Teen Size) at RoboCup International 2018 in Montreal, Canada.
- **2nd Place - Technical Challenge, RoboCup 2018:** Won second place in the Technical Challenge (Humanoid Teen Size) at RoboCup International 2018 in Montreal, Canada.
- **3rd Place - Best Humanoid Robot, RoboCup 2018:** Recognized as the third-best humanoid robot at RoboCup International 2018 in Montreal, Canada.
- **1st Place - Kontes Robot Indonesia (KRI) 2017:** Achieved first place in the Humanoid Robot Soccer Competition (Regional Level - East and Central Java) at KRI 2017.
- **2nd Place - KRI 2017 National Level:** Secured second place at the National Humanoid Robot Soccer Competition in Bandung, Indonesia.
- **1st Overall - FIRA HuroCup 2017:** Won first place overall at the Federation of International Robot Association (FIRA) HuroCup 2017 in Kaohsiung, Taiwan, excelling across multiple categories.
- **1st Place - Mini DRC, FIRA HuroCup 2017:** Achieved first place in the Mini DRC category at FIRA HuroCup 2017 in Kaohsiung, Taiwan.
- **1st Place - Sprint, FIRA HuroCup 2017:** Won the Sprint category at FIRA HuroCup 2017 in Kaohsiung, Taiwan.
- **1st Place - United Soccer, FIRA HuroCup 2017:** Secured first place in the United Soccer category at FIRA HuroCup 2017 in Kaohsiung, Taiwan.
- **3rd Place - Obstacle Run, FIRA HuroCup 2017:** Earned third place in the Obstacle Run category at FIRA HuroCup 2017 in Kaohsiung, Taiwan.
- **1st Place - Kontes Robot Indonesia (KRI) 2016:** Won the Humanoid Robot Soccer Competition (Regional Level - Jawa Timur) at KRI 2016.
- **3rd Place - KRI 2016 National Level:** Secured third place in the Humanoid Robot Soccer Competition at KRI 2016 National Level in Surabaya, Indonesia.
- **2nd Overall - FIRA HuroCup 2016:** Achieved second place overall at FIRA HuroCup 2016 in Beijing, China.
- **2nd Place - United Soccer, FIRA HuroCup 2016:** Secured second place in the United Soccer category at FIRA HuroCup 2016 in Beijing, China.
- **2nd Place - Sprint, FIRA HuroCup 2016:** Won second place in the Sprint category at FIRA HuroCup 2016 in Beijing, China.
- **2nd Place - Obstacle Run, FIRA HuroCup 2016:** Earned second place in the Obstacle Run category at FIRA HuroCup 2016 in Beijing, China.
- **2nd Place - Marathon, FIRA HuroCup 2016:** Achieved second place in the Marathon category at FIRA HuroCup 2016 in Beijing, China.
- **2nd Place - Asia Pacific ICT Award 2014:** Secured second place in the Asia Pacific ICT Award 2014 held in Jakarta, Indonesia.
- **2nd Place - Indonesia ICT Award 2014:** Won second place in the Indonesia ICT Award 2014, highlighting innovation in technology development.

## Certifications

- **Natural Language Processing with Classification and Vector Spaces:** Certification from Coursera demonstrating knowledge of Natural Language Processing (NLP) and Artificial Neural Networks.
- **Sequence Models:** Coursera certification focusing on Transformer Models, Long Short-Term Memory (LSTM), and advanced sequence modeling techniques.

## Additional Skills

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- Artificial Intelligence
- Machine Learning
- Large Language Models
- Robotics
- Computer Vision (OpenCV)
- Data Analysis (Pandas)
- Cloud Computing (Google BigQuery)
- Deep Learning (TensorFlow, Keras, PyTorch)
- Programming (Python, C/C++, SQL)
- Embedded Systems (Arduino)
- Robotic Operating System (ROS)
- **Languages:** English (Fluent)