Muhammad Reza Ar Razi

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Education

Technical University of Munich   Munich, Germany
Master's Degree in Informatics | Grade: 2.7   *2023 – 2025*

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

Work Experience

Huawei Munich Research Center   Munich, Germany
Master Thesis Student   *06/2024 – Present*

- 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 and user trust.

Huawei Munich Research Center   Munich, Germany
Working Student - Trustworthy Technology and Engineering Lab   *11/2023 – 05/2024*

- Reviewed prior research related to LLM privacy and implemented privacy attacks.
- Conducted empirical evaluations on public and industrial datasets using Python.
- Enhanced the understanding of LLM vulnerabilities, contributing to improved privacy measures.

Chair of Robotics, AI, and Real-time Systems, Technical University of Munich   Munich, Germany
Graduate Student Research Assistant   *06/2023 – 06/2024*

- 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, improving operational efficiency.

PT. Artha Dana Teknologi (indodana.com)   Jakarta, Indonesia
Senior Data Scientist   *10/2021 – 04/2023*

- 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, reducing processing time by 30%.

PT. Artha Dana Teknologi (indodana.com)   Jakarta, Indonesia
Risk Modelling Analyst   *09/2019 – 10/2021*

- Built credit risk models and conducted analytics to assess financial risk.
- Analyzed key metrics to determine and mitigate risk in loan applications.
- Partnered with the product team to improve risk detection processes, enhancing accuracy by 25%.

UBTECH Robotics Indonesia   Jakarta, Indonesia
Robot Engineer Intern   *12/2018 – 02/2019*

- Developed educational robots and created learning modules for children.
- Taught robotics concepts to children, fostering interest in STEM fields.
- Contributed to enhancing educational tools, making learning more interactive and engaging.

GDP Labs Artificial Intelligence Research (GLAIR)   Jakarta, Indonesia
AI Engineer Intern   *07/2018 – 09/2018*

- Researched and forecasted time series data using statistical and deep learning methods.
- Analyzed and visualized time series data to derive actionable insights.
- Contributed to research publications, enhancing the organization's reputation in AI research.

Side Projects

Humanoid Robot Soccer Research

- Awarded multiple accolades at RoboCup International for innovative design and performance.
- 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

- Artificial Intelligence
- Machine Learning
- Large Language Models
- Robotics
- Data Analysis
- Computer Vision

- Python
- C/C++
- SQL
- ROS
- Embedded Systems
- **Languages:** English (Fluent)