Ali Kaya

Aspiring Data Scientist, Robotic Scholar
Industrial Consultant

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Ali Kaya, formerly known as Zinong Meng, has changed his nationality to Turkish and is currently a M.Sc. Student and **Part-time Research Assistant** at Åbo Akademi University in Turku, Finland. He is always **actively seeking for opportunities to pursue a Ph.D. degree** in **Robotics, Autonomous Navigation** domain.

Ali Kaya boasts a versatile skill set encompassing enterprise and solution architecture, machine learning, robotics, and research and innovation. With a diverse background spanning both industry and academia, his track record of achievements stands as a testament to his capabilities. Following years of fieldwork for various companies, Ali took a break to focus on parenting his daughter. Driven by his passion for artificial intelligence, he has now returned to academia. Having lived in four countries and fluent in English, Chinese, and some Turkish and Finnish, Ali is celebrated by colleagues, classmates, and supervisors for his analytical mindset, creativity, and goal-oriented approach.

AREA OF INTEREST

Autonomous Navigation, Robotics, Situational Awareness

EDUCATION

M.Sc. in Engineering of Data-intensive Intelligent Software Systems, *Åbo Akademi University*		2023- now
M.Sc. in Information Technology (Distinction) , *Hong Kong Polytechnic University*		2011-2013
B.Sc. in Information Management & Information System (Honors), *Hebei University of Technology*		2007-2011

SKILLS

Tools and Languages	C/C++, Java, Python, Git, Linux, Bash, ROS2, LaTeX, MarkDown, CUDA, MPI, etc.
ML Library	Scikitlearn, PyTorch, Pandas, NumPy, Transformers, etc.
Other	IT Consulting, Enterprise IT solutions like ERP, PLM, ME, etc.

PROJECT SUMMARY

Åboat	ROS2, C++, Bash	2023-2024 ongoing
Human Activity Custering	KMeans & DBSCAN	2024
Tweet Sentiment Analysis	Transformer & LSTM	2024
Photo-realistic Style Transfer	CycleGAN	2023
Novel Character Network Analysis	NER & NetworkX	2023
Galaxies Density Analysis	CUDA & C	2023
Web Scrawling and Flight Analysis	Selenium	2023
Parkinson Biomaker Detection	1D CNN & MLP	2023-2024 ongoing
MES Implementation for Baoxiniao Holding Co Ltd	SAP MES	2015-2016
MES Implementation for Amperex Technology Limited	SAP MES	2014-2015
PLM Implementation for Heli forklift	SAP ERP and PLM	2014-2015
SmartHome Implementation	Ontology and OpenWRT	2012-2013
E-learning Development	JSF/Spring/Hibernate	2012

RECENT WORK EXPERIENCE

Part-time Research Assistant and Group Lead   **10.2023 — Present**
Åbo Akademi University   *Turku, Finland*

Embedded within a maritime context, the Åboat Project serves as a pioneering platform dedicated to advanced research in artificial intelligence. Specifically, it emphasizes robotic integration, sensor fusion (including cameras, LiDAR, GPS, IMU, and etc.), and machine learning methodologies and implementation.

- Codebase Refinement and Functional Expansion: Systematically refining the codebase while integrating new modules in C++ and Python. This initiative is geared towards heightening the efficiency and efficacy of robotic communication.
- Architectural Assessment: Undertaking thorough evaluations of the architecture, ready to revise components as required. This involves tailoring interfaces and implementing dockerization with a 4G connection to bolster project adaptability.

- Optimization Priority: Focusing efforts on optimizing the system to enhance overall efficiency and sustainability.
- Research Collaboration: Partnering with maritime experts to identify promising research directions, such as leveraging machine learning for seabed classification using sonar data.
- Team and Project Management: Overseeing and coordinating team activities to foster seamless communication and collaboration, ensuring the successful delivery of projects.

Career Break   01.2022 — 08.2023
Parenting   *İzmir, Türkiye*

Co-founder & Director   09.2018 — 01.2022
Investwide Inc   *Manila, Philippine*

- Conducting general management, securing funding and managing investor relations, expanding partnerships, overseeing finances, and outlining technical roadmaps.

Industrial Consulting Manager   09.2016 — 08.2018
Lenovo Capital and Incubator Group   *Beijing, China*

- Served as an industry & business consulting manager in the Big Data Platform department at LCIG. Specialized in Intelligent Manufacturing and Intelligent Supply Chain Management, involved in project execution, client engagement, people management, presales value proposition.

CoE & Functional Consultant   07.2013 — 09.2016
SAP   *Beijing, China*

- Specialized in SAP ERP, PLM and MES in discrete and process manufacturing industries, functioned as a Center of Expertise, involved in customer service, project implementation, IT architecture evaluation, etc.

Part-time Research Assistant   09.2012 — 06.2013
Hong Kong Polytecnic University   *Hong Kong S.A.R.*

- Served as SmartHome Lab research assistant and faculty project assistant, involved in project development for diverse domains, including IoT and e-learning systems systems

CERTIFICATIONS

Meta Marketing Analytics Specialization	Feb 2023
Google IT Automation with Python	Dec 2022
Google Data Analytics Certificate	Dec 2022
SAP Support Engineer for Workload Analysis	2014
SAP Support Engineer for SAP NetWeaver	2014
SAP Root Cause Analysis for Solution Manager	2013

PUBLICATIONS

A hybrid algorithm for recommendation twitter peers
(Published when I was holding Chinese Nationality and pursuing my master degree at Hong Kong PolyU)   Mar 2014