

# ALI KAYA

## Professional Data Scientist & Scholar ; Experienced Industrial Consultant

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## AREAS OF INTERESTS

Harnessing the power of advanced **Machine Learning Algorithms** and **Industrial Consulting Experience** to effectively drive business success through **innovative value propositions**.

## EXPERTISE

### Professional Skills

- **Horizontally**, experienced in addressing service-oriented topics such as Predictive Maintenance, Customer Portraits, and Maritime Autonomous Automation in diverse industries.
- **Vertically**, experienced in company-specific solution like **SAP ERP**, **PLM**, **MES**, **Visual Enterprise**, and **Document Management**.

### Software Skills

- Proficient in programming languages such as **C++** and **Python** (with expertise in **PyTorch** and **scikit-learn**), **Linux**, **ROS2**, etc.
- Well-versed in **Machine Learning** algorithm-oriented tasks, covering a spectrum from traditional regression and classification to advanced deep learning techniques like **CNN** and **GAN**.

### Soft Skills

- Strong communication and presentation skills for **Value Proposition** and **Proof of Concept**.
- Inspiring leadership and coaching skills as well as **Teamwork** and **collaboration** skills.

## EXPERIENCE

### Part-time Research Assistant and Group Lead

#### A Maritime Project @ Åbo Akademi University

📅 Oct. 2023 – Present    📍 Turku, Finland

- **Code Refactoring**: Engaging in the systematic refactoring of the existing codebase in both C++ and Python to enhance efficiency.
- **Architectural Evaluation**: Conducting thorough evaluations of the architecture, with a readiness to redesign elements as needed. Such as customizing messages and dockerizing with a 4G connection to further enhance the project's adaptability.
- **Optimization Focus**: Directing efforts towards optimizing the overall system to ensure heightened efficiency and maintainability.
- **People Management and Project Management**: Overseeing and coordinating team efforts, ensuring effective communication and collaboration for successful project outcomes.

### Co-founder & Director

#### An innovated E-commerce Company - Investwide Inc.

📅 Sept. 2018 - Jan. 2022    📍 Metro Manila, Philippines

- **Business Track**: Includes overall management, funding and investor relations management, partnership expansion, and financial oversight.
- **Tech Track**: Encompasses technical roadmap safeguarding, architecture verification and integration, as well as go-live support.

## EDUCATION

M.Sc. in Engineering of Data-intensive Intelligent Software Systems (Erasmus Mundus Joint Master Degree)

#### Åbo Akademi University

📅 Finland, 2023-2025

M.Sc. (Distinction) in Information Technology

#### Hong Kong Polytechnic University

📅 Hong Kong SAR, 2011-2013

B.S. (Honors) in Information Management & Information System

#### Hebei University of Technology

📅 China, 2007-2011

## RECENT PROJECTS

Image Style Transfer using GAN

Parallel Design - MPI & OpenMP

Åboat Innovation with ROS2

Parkinson Biomarker Detection with CNN

ML Classification using Multiple Models

Network Analysis

GPU CUDA Design

## LANGUAGES

Finnish

English

Chinese



## PROFESSIONAL REFERENCES

### Prof. Sébastien Lafond, Ph.D

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✉ Tuomiokirkontori 3, 20500 Turku, Finland

### Mr. Ban Luo, Senior Product Manager

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## EXPERIENCE CONT.

### Industrial Consulting Manager

#### A Big Data Platform LEAP @ Lenovo Capital and Incubator Group

📅 Sept. 2016 - Aug. 2018    📍 Beijing, China

- **Project Execution:** Led projects in Predictive Maintenance, Customer Portraits, and Health Risk Analysis of Procurement.
- **Client Support:** Provided end-to-end support, converting business opportunities into contracts for industries like Fiber, Steel, Auto Manufacturing, and ITS.
- **Sales Achievement:** Consistently surpassed annual quotas in presale.
- **People Management:** Oversaw and guided teams, ensuring effective collaboration and achievement of project goals.
- **Public Speaking:** Delivered impactful speeches to diverse audiences, including C-level stakeholders, representing Lenovo in multiple conferences.

### CoE & Functional Consultant

#### A cross-functional department @ SAP

📅 Jul. 2013 - Sept. 2016    📍 Beijing, China

- **Customer Service Experience(2013-2016):** Engaged in various customer services such as Volume Test Optimization, Business Process Performance Optimization, Integration Verification, Go-live Support, addressing existing issues and mitigating potential risks. Notably assisted ExxonMobil in identifying processing bottlenecks during VTO remote service, receiving recognition from SAP US.
- **PLM Consultant (2014):** Led a year-long initiative to implement PLM Phase III for Heli, a forklift truck manufacturer in China. Mastered Product Lifecycle Management methodology, covering document management, product structure management, BOM management, routing management, and visual engineering technology.
- **MES Consultant (2015-2016):** Designed Production Line digital twins, Visualized Overall Equipment Efficiency, Tracked Shop Floor Control, etc., assisting multiple large companies in taking the first steps towards Industry 4.0

### Part-time Project Assistant & Research Assistant

#### A Lab @ Hong Kong Polytechnic University

📅 Jul. 2012 - May 2013    📍 Hong Kong SAR

- Contributed to the development of an e-learning system based on Ontology.
- Actively participated in the development of OpenWRT for a SmartHome Project.
- Continuously implemented an AI system using JSF, Spring, and Hibernate structures.

## MOST PROUD OF



#### Encouraging Team Success

Fostering a culture of constructive feedback and personal success, irrespective of organizational size.



#### Technology Enthusiast

Maintaining a forward-looking attitude that transcends age and experience, earning recognition universally.



#### Entrepreneurial Growth

Leading the development from inception, overseeing up to 80 employees across 6 departments.



#### Academic Patience

In the face of new challenges, demonstrating resilience and persistence without compromising commitment.

## CERTIFICATIONS

- Meta Marketing Analytics Specialization
- Google IT Automation with Python
- Google Data Analytics Certificate
- SAP Support Engineer for Workload Analysis
- SAP Support Engineer for SAP NetWeaver
- SAP RCA for Solution Manager

## PUBLIC SPEECH

🎤 Giving a conference speech related to cyber-physical systems as the LCIG representative, 2018, Beijing

🎤 Giving a valedictory speech as the top 1 graduate representative, 2013, Hong Kong