Alvin Ang's Curriculum Vitae

Date: January 2024

Name: **Dr Alvin Ang Wei Hern**

Qualifications

- Ph.D. in Operations Research
- Year conferred : 2014
- Awarding institution name: Nanyang Technological University, Singapore

- Master of Science (M.Sc.) in Logistics Management
- Year conferred : 2007
- Awarding institution name: Nanyang Technological University, Singapore

- Bachelor of Engineering (B.Eng.), Mechatronics
- Year conferred : 2006
- Awarding institution name: Nanyang Technological University, Singapore

Professional Certifications

- Advanced Certificate in Learning and Performance (ACLP, Singapore, 2021)
- Certificate of Simulation Modeling Training (AnyLogic, Singapore, 2018)
- Chartered Institute of Logistics and Transport (CILT), 2013
- International Association of Engineers (IAENG), 2013
- Introduction to Statistical Learning (Online Stanford University, 2013)
- IBM Certificate - Big Data 101 (CognitiveClass.ai, 2020)
- IBM Badge - Data Analysis Using Python (CognitiveClass.ai, 2020)
- IBM Certificate - Data Science Methodology (CognitiveClass.ai, 2020)
- IBM Certificate - Hadoop 101 (CognitiveClass.ai, 2020)
- IBM Certificate - Introduction to Data Science (CognitiveClass.ai, 2020)
- IBM Certificate - Python 101 for Data Science (CognitiveClass.ai, 2020)
- IBM Badge - Python for Data Science (CognitiveClass.ai, 2020)
- IBM Certificate - Statistics 101 (CognitiveClass.ai, 2020)
- IBM Badge - Enterprise Design Thinking Practitioner (IBM Skills Academy, 2020)
- IBM Certificate - Data Visualization with Python (CognitiveClass.ai, 2021)
- IBM Badge - Data Analysis Using Python (CognitivieClass.ai, 2021)
- IBM Certificate - Digital Analytics and Regression (CognitiveClass.ai.2021)
- IBM Certificate - DataOps Methodology (CognitiveClass.ai, 2021)
- IBM Badge - DataOps Methodology (CognitiveClass.ai, 2021)
- IBM Certificate - Data Science Tools (CognitiveClass.ai,2021)
- IBM Badge - Data Science Tools (CognitiveClass.ai,2021)
- IBM Certificate - Mathematical Optimization for Business Problems (CognitiveClass.ai,2021)
- IBM Badge - Data Science Foundations - Level 2 (V2) (CognitiveClass.ai, 2021)
- IBM Badge - Applied Data Science with Python - Level 2 (CognitiveClass.ai, 2021)
- IBM Certificate - SQL (CognitiveClass.ai, 2021)
- IBM Certificate - R for Data Science (CognitiveClass.ai, 2022)
- IBM Certificate - Data Visualization with R (CognitiveClass.ai, 2022)
- IBM Badge - Data Visualization with R (CognitiveClass.ai, 2022)
- IBM Certificate - Deep Learning using TensorFlow (CognitiveClass.ai, 2022)
- IBM Badge - Deep Learning using TensorFlow (CognitiveClass.ai, 2022)

- IBM Certificate - Machine Learning with Python (CognitivieClass.ai, 2022)
- IBM Badge - Machine Learning with Python (CognitiveClass.ai, 2022)
- Kaggle - Python (2022)
- Kaggle - Pandas (2022)
- Udemy - Apache Spark 3 - Spark Programming in Python for Beginners

Recent Employment History

- Tertiary Infotech Pte Ltd. Data Science / AI Trainer, October 2021 – Present
- IBM Data Science Instructor, Dec 2020 – April 2021
- Associate Lecturer, University of Newcastle (UON Singapore), Jan 2020 - June 2020
- Research Fellow, National University of Singapore (NUS), Nov 2018 – Apr 2019
- Associate Lecturer, Curtin University, 2017 – 2017
- Associate Lecturer, Singapore University of Social Sciences (SUSS), 2010 – 2017
- Assistant Professor, SP Jain School of Global Management, 2012 – 2013
- Teaching Assistant, Nanyang Technological University (NTU), 2007 – 2014

Industry Research and Experience

- Founder of Open Source Data Science Community (www.DataFrens.sg)
- Principle Consultant (Data Science), Embrio Enterprises, Jan 2020 - April 2020
- E-Marketing & Analytics Lead Strategist, MyDreamzCloset.com, 2015 – 2018
- Business Analyst, Decision Science Agency, 2013 – 2014

Courses taught in University / Institutes
- Data Science / AI
    - Apache Spark
    - C / C++
    - Decision Analytics
    - Design of Experiments (DOE) using Minitab
    - Excel Analytics + Dashboarding
    - Linear Programming
    - Machine Learning and Deep Learning
    - Python
    - Python for Finance
    - R
    - Statistics

- o SQLite
  - o Tableau
- - Teaching Tensorflow / Keras
- - Teaching Text Mining
- Operations Management
- Quantitative Methods
- Statistics
- Applied Business Mathematics

Publications

Journal and conference articles

- Determining Safety Stock for Omni-Channel Environment, June 2020, International Journal of Information Systems and Supply Chain Management (IJISSCM)
- Designing Reverse Logistics Network in an Omni-Channel Environment in Asia, 2018, Scientific Journal of Logistics (LogForum)
- Performance Comparison of Multiple Product Kanban Control Systems, May 2017, International Journal of Production Research (IJOPR).
- A Performance Comparison between the Base Stock (BS), Traditional Kanban Control System (TKCS) and Extended Kanban Control System (EKCS), Jan 2013, Annual Symposium on Management and Operations Research (ASMOR).
- A Performance Comparison between the Base Stock (BS), Traditional Kanban Control System (TKCS) and Extended Kanban Control System (EKCS), Dec 2012, IEEE International Conference on Industrial Engineering and Engineering Management (IEEM).
- A Model for Determining the Optimal Number of Base Stock and Kanbans in a Single Stage EKCS, Nov 2010, Asia – Oceania Top University League on Engineering (AOTULE) Postgraduate Student Workshop.

Awards and Achievements

- 5 Years Dedicated Lecturing Award from Singapore University of Social Sciences (SUSS, Singapore, 2018)
- Mathematics Professor of the Year Award from SP Jain School of Global Management (Singapore, 2013)
- Second Prize in Engineering Innovation and Design from Nanyang Technological University (NTU, 2003)
- Excellent Teaching Feedbacks (SUSS / NTU / Curtin)

Personal Information

Date of Birth: 4th October 1981

Gender: Male

Citizenship: Singaporean

Race: Chinese

Languages (Written and Spoken): English and Chinese

Hobbies

Singing, Playing the Piano

Contact Details:

Personal Website: www.AlvinAng.sg

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Medium: https://dr-alvin-ang.medium.com/

Tableau: https://public.tableau.com/app/profile/dr.alvin.ang

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