2019 IAC Instructor Knowledge Program

Emerging Technologies:
Cloud Computing, Virtualization &
Machine Learning (Artificial Intelligence)

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Ein Intelligence

CONTENTS

- **Course Introduction**

- **How to Leverage Innovation Driven by Cloud Computing Systems**

- **New Paradigm of the Virtualization Technology**

- **Digital Revolution through Machine Learning and Artificial Intelligence**

Schedule Overview

Lecture #1

How to Leverage Innovation Driven by Cloud Computing Systems

- Industry 4.0 & Digital Transformation
- Why Cloud Computing ?
- Resources & Services in Cloud Computing
- Innovation Driven by Cloud Computing

Lecture #2

New Paradigm of the Virtualization Technology

- Basic Concept of the Virtualization
- Development of Virtualization Technology
- Docker Container & Kubernetes
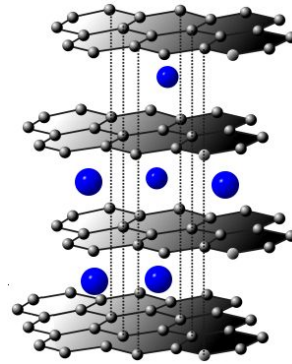- Continuous Deployment in Cloud Computing

Lecture #3

Digital Revolution through Machine Learning and Artificial Intelligence

- Machine Learning & Artificial Intelligence
- Data Science & Data Engineering
- Classification of Machine Learning
- Machine Learning Demo Practices
- Digital Revolution through Artificial Intelligence

Speaker Presentation

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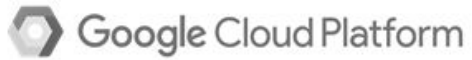Chemistry & Electrical Eng

Materials Chemistry

Materials Sci & Eng

EMBA

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- **Cloud & AI Expertise**

  Google Cloud Platform   aws   Azure   openstack   kubernetes   biopython

- **Business Scope**

  Cloud Architect Consulting & Engineering

  Cloud Computing Training

  Cloud Native Software Development (AI & ML)

- **References**   KB   coupang   WEmakePRICE   4:33   SKILLSUPPORT

  cafe24   DNA Link   NOYESRUN   HANCOM Inc.   DFOCUS

Audience Experience Check

- Are you familiar with the terms like Cloud Computing, Digital Revolution or Machine Learning ?

- Have you experience in SaaS products like Salesforce, Office365, Google Doc or SAP Hana ?

- Do you know any of new computer languages such as Python, JavaScript, Angular, Node.js, R or just traditional ones like C, Fortran, Cobol, Java, SQL ?

- Have you been using free open software/hardware for development like MySQL(MariaDB), MongoDB, Any Linux OS, Raspberry Pi, Arduino, Android and etc. ?

- Does any one have experience in DevOps activities or free programming tools like Google CoLab ?