

Portofolio

Muhammad Irfan Karim
2023

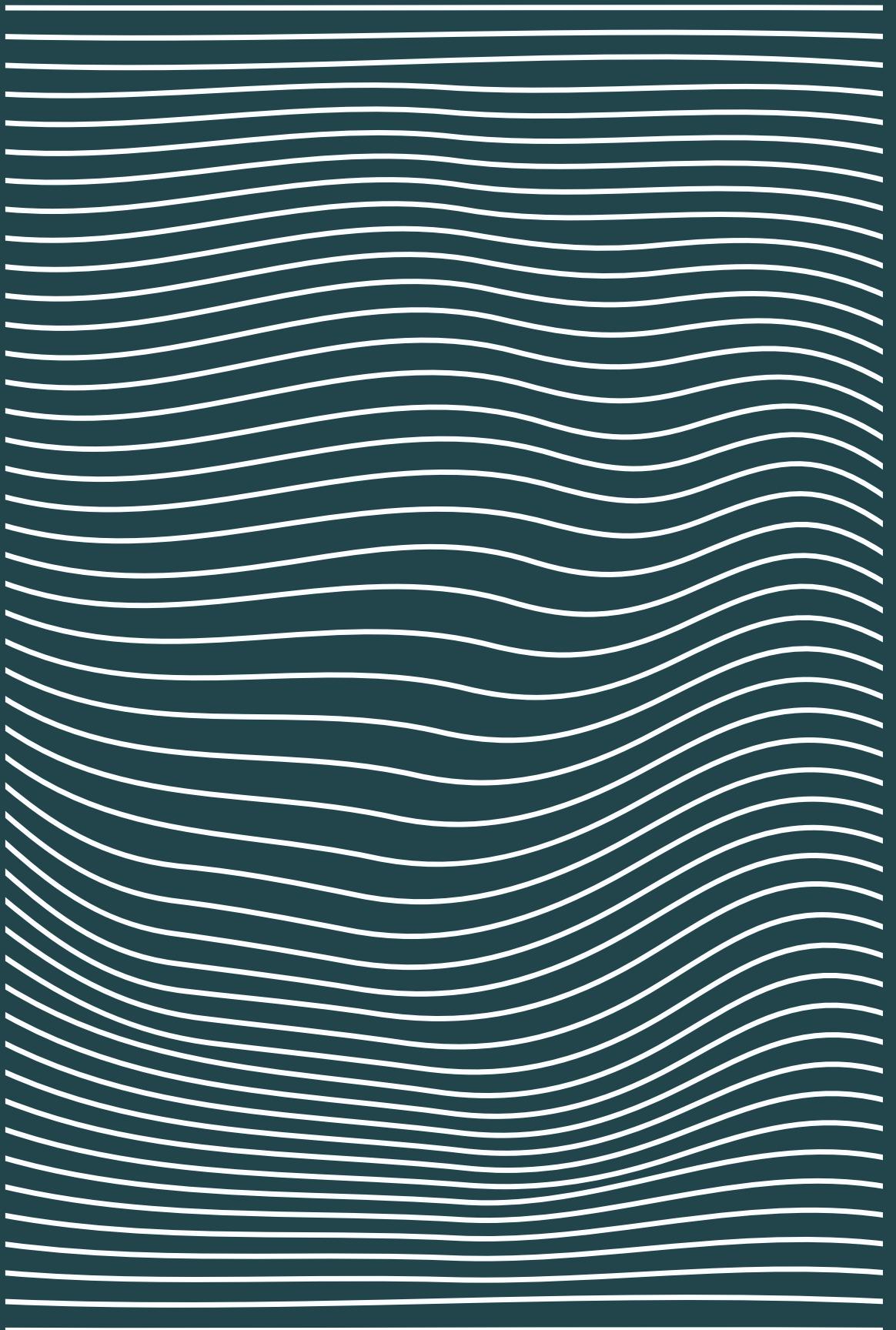


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ABOUT ME

Muhammad Irfan Karim

I am a Computer System student at Sriwijaya University with GPA 3.83. I am a highly motivated person equipped with integrity and goals.

During my college year, i actively participated in external and internal organizations which honed my soft skill such as leadership, problem-solving and working in a team. Also, i like to compete in national competition and won several on them.

I am extremely interested in Data Science, Analyst, and Machine Learning.

ORGANIZATIONAL EXPERIENCES

I'm actively participated in organizations such as HIMASISKO and HIMAJA

In HIMASISKO i became chairman of the association for 1 year.

When i became chairman of the HIMASISKO i succeeded managed to carry out more than 15 work programs that were held both at the departmental scale to the national scale.



ORGANIZATIONAL EXPERIENCES

When i was a staff at HIMAJA, i did a lot of big projects which involved many committees and also participants from any area.

I was once the deputy chief executive at the event where I managed and coordinated a team to be able to carry out a work program properly



OTHER ORGANIZATIONAL EXPERIENCES



1. Chairman of the Computer Systems Student Association (HIMASISKO) - 2022
2. Staff of the Events Division of the Sriwijaya Besanjo HIMAJA work program - 2022
3. Chief Executive of the SK FOR ESKA HIMASISKO work program - 2021
4. Event Coordinator of the HIMASISKO Programming Workshop work program - 2021
5. Deputy Chief Executive of the HIMAJA Angso Duo Millennial Festival work program - 2021
6. Deputy Chief Executive of the HIMAJA UNSRI Farewell Ceremony work program - 2021
7. HIMASISKO PSDM department staff - 2021
8. Staff of the Events Division of the Himaja for Humanity work program - 2021

COMPETITION EXPERIENCES

During my lecture, i actively took part in competitions on a national scale and also won several competitions such as UI/UX Design, Essays and Business Plans.



COMPETITION EXPERIENCES

I love to compete and apply my knowledge on this major in competition to upgrade my knowledge and skill



COMPETITION EXPERIENCES

Then, i like to share my knowledge to my other teammate and work together to win a competition



COMPETITION EXPERIENCES

This is a certificate that i got when i took part in an essay competition at several universities in Indonesia and won 2nd, 3rd and 4th place



OTHER COMPETITION ACHIEVEMENTS

- 1.1st Winner of National Technology Euphoria UI/UX Design Competition by BEM FASILKOM UNSRI
- 2.3rd Winner of National Technology Euphoria Business Plan Competition by BEM FASILKOM UNSRI
- 3.3rd Place in the SIFEST National UI/UX Design Competition by HIMSI FASILKOM UNSRI
- 4.2nd Winner of Renewable Technology Innovation and Idea Essay Competition in the era of society 5.0 by
Himatekkom UPI Cibiru
- 5.Favorite Champion Redesign the WorxSpace UI UX application by Gamatechno
- 6.Top 10 National Essay Competition by DWF Palembang
- 7.Finalist of the Sharia Young Leader Summit National Essay Contest by BSI MASLAHAT
- 8.1st Runner Up in National Essay Competition by RUM NATIONAL VIRTUAL COMPETITION UDAYANA UNIVERSITY
- 9.2nd Runner Up in National Essay Competition by PENA MATRIX GANESHA EDUCATION UNIVERSITY
- 10.National Essay Competition Participants by KOMET UNIVERSITAS JAMBI
- 11.National Essay Competition Participants by YOGYAKARTA VETERAN NATIONAL DEVELOPMENT UNIVERSITY
- 12.National Essay Competition Participants by B - Preneurship JENDERAL SOEDIRMAN UNIVERSITY
- 13.National Essay Competition Participants by FORMASI FEB UNIVERSITAS TANJUNGPURA
- 14.National Essay Competition Participants by MillionCita National Essay Competition
- 15.National Essay Competition Participants by HIMAGRETO BOGOR AGRICULTURE INSTITUTE
- 16.National Essay Competition Participants by KAMABIGUS CUP SRIWIJAYA UNIVERSITY
- 17.National Essay Competition Participants by NINUFEST
- 18.National Essay Competition Participants Student Science Week (PIMPEL) by UNIVERSITY OF MUHAMMADIYAH
SURAKARTA
- 19.FINALIST of the NATIONAL LOGIC VOL 2 2021 competition by PATERON INDONESIA
- 20.National Poster Design Competition Participants Contest by SRIWIJAYA UNIVERSITY POLYTECHNIC

Winning Space Race with Data Science

Muhammad Irfan Karim
20 April 2023

Executive Summary

- Summary of methodologies
 - Data Collection through API
 - Data Collection with Web Scraping
 - Data Wrangling
 - Exploratory Data Analysis with SQL
 - Exploratory Data Analysis with Data Visualization
 - Interactive Visual Analytics with Folium
 - Machine Learning Prediction
- Summary of all results
 - Exploratory Data Analysis result
 - Interactive analytics in screenshots
 - Predictive Analytics result

PROJECT EXPERIENCES

In my lectures i also took many courses on certain platforms such as coursera and completed various projects including the project in the picture beside

In this project, i analyzed what factors determine if the rocket will land successfully, the interaction among various features that determine the success rate of a successful landing

And what operating conditions need to be in place to ensure a successful landing program.

PROJECT EXPERIENCES

This is the result and conclusion of the project, you can check this project on this link :

https://github.com/Muhammadirfankarim/Applied-data-science-capstone-IBM/blob/main/Capstone_Presentation_Muhammad_Irfan_Karim.pdf

Conclusions

We can conclude that:

- The larger the flight amount at a launch site, the greater the success rate at a launch site.
- Launch success rate started to increase in 2013 till 2020.
- Orbits ES-L1, GEO, HEO, SSO, VLEO had the most success rate.
- KSC LC-39A had the most successful launches of any sites.
- The Decision tree classifier is the best machine learning algorithm for this task.

PROJECT EXPERIENCES

The screenshot shows a DataCamp project page. At the top left is the Skills Network logo, which consists of a circular icon with nodes and connections. To its right, the text "Skills Network" is written in blue. Below the logo, the title "Data Analysis with Python" is displayed in green. The main heading of the project is "House Sales in King County, USA", also in green. A descriptive text below the heading states: "This dataset contains house sale prices for King County, which includes Seattle. It includes homes sold between May 2014 and May 2015." Further down, there is a table titled "Variable Description" with the following data:

Variable	Description
id	A notation for a house
date	Date house was sold
price	Price is prediction target
bedrooms	Number of bedrooms
bathrooms	Number of bathrooms
sqft_living	Square footage of the home
sqft_lot	Square footage of the lot
floors	Total floors (levels) in house

In this project, i analyze and predict housing prices using attributes or features such as square footage, number of bedrooms, number of floors, and so on using Linear Regression.

You can check this project on this link :

https://github.com/Muhammadirfankarim/MyPortfolio/blob/main/House_Sales_in_King_Count_USA%20-%20Muhammad%20Irfan%20Karim.ipynb

OTHER PROJECT EXPERIENCES

See All My Project Here :

<https://github.com/Muhammadfankarim/MyPortofolio>

- 01** Face Mask Detection using Convolutional Neural Network (CNN)
- 02** Fake News Prediction using Logistic Regression
- 03** Copy of Rock vs Mine Prediction using Logistic Regression
- 04** Diabetes Prediction using Support Vector Machine (SVM)
- 05** House Price Prediction with ANN
- 06** Car Price Prediction using Lasso and Linear Regression
- 07** Gold Price Prediction using Random Forest
- 08** House Sales in King Count USA using Linear Regression
- 09** Breast Cancer Classification using Machine Learning
- 10** Heart Disease Prediction using Logistic Regression

SCHOLARSHIP EXPERIENCES

Selected as Awardee of BSI Prestasi Scholarship after join the selection with 4.418 Registran. In this scholarship there are just 100 student pass to be a awardee in BSI Scholarship Batch 2021





SCHOLARSHIP EXPERIENCES

During my time as an awardee, i once ran a social project which aimed to provide lessons on Islamic economics and provide assistance in the form of groceries for children in orphanages.



3 Courses

May 1, 2023

Muhammad Irfan Karim

has successfully completed the online, non-credit Specialization

Machine Learning

Congratulations on completing all three courses of the Machine Learning Specialization! You studied modern machine learning concepts, including supervised learning (linear regression, logistic regression, neural networks, decision trees), unsupervised learning (clustering, anomaly detection), recommender systems, and reinforcement learning. You learned some of the best practices for building machine learning models. You've also gained practical skills to apply machine learning techniques to challenging real-world problems. Now #BreakintoAI and start building your career in machine learning!

John Ng

Andrew Ng, Instructor,
DeepLearning.AI
Eddy Shyu, Curriculum
Architect,
DeepLearning.AI
Aarti Bagul and Geoff
Ladwig, Curriculum
Engineers,
DeepLearning.AI

Supervised Machine
Learning: Regression and
Classification

Advanced Learning
Algorithms

Unsupervised Learning,
Recommenders,
Reinforcement Learning

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Verify this certificate at:
<https://coursera.org/verify/specification/RTMVYDW4UQ4>



Apr 21, 2023

Muhammad Irfan Karim

has successfully completed the online, non-credit Professional Certificate

IBM Data Science

In this Professional Certificate, learners developed and honed hands-on skills in Data Science and Machine Learning. Learners started with an orientation of Data Science and its Methodology, became familiar and used a variety of data science tools, learned Python and SQL, performed Data Visualization and Analysis, and created Machine Learning models. In the process they completed several labs and assignments on the cloud including a Capstone Project at the end to apply and demonstrate their knowledge and skills.



Feb 6, 2023

Muhammad Irfan Karim

has successfully completed the online, non-credit Professional Certificate

Google Data Analytics

Those who earn the Google Data Analytics Professional Certificate have completed eight courses, developed by Google, that include hands-on, practice-based assessments and are designed to prepare them for introductory-level roles in Data Analytics. They are competent in tools and platforms including spreadsheets, SQL, Tableau, and R. They know how to prepare, process, analyze, and share data for thoughtful action.

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Verify this certificate at:
<https://coursera.org/verify/professional-cert/MKJEBK3VGXH3>

Verify this certificate at:
<https://coursera.org/verify/professional-cert/BLO92WDEWBV>

CERTIFICATION

In lectures i am also happy to improve my skills by taking various courses and getting certifications, like the 3 pictures above, namely the data analytics specialization from Google, the data science specialization from IBM and the machine learning specialization from Deeplearning.ai

OTHER CERTIFICATIONS

1. DeepLearning.AI – Advance Learning Algorithms
2. DeepLearning.AI – Supervised ML_Regression and Classification
3. DeepLearning.AI – Unsupervised-Learning_Recommendations_Reinforcement-Learning
4. Google – Analyze data to answer questions
5. Google – Ask questions to make data driven decision
6. Google – Data Analysis with R Programming
7. Google – Foundations data
8. Google – Prepare Data For Exploration
9. Google – Process data from dirty to clean
10. Google – Share data through the art of visualization
11. IBM – Applied DS Capstone
12. IBM – Data Analysis with Python
13. IBM – Data Science Methodology
14. IBM – DB and SQL for DS with Python
15. IBM – Data Visualization with Python
16. IBM – Machine Learning With Python
17. IBM – Python for Data Science AI Development
18. IBM – Python Project for Data Science
19. IBM – Tools for Data Science
20. IBM – What is data Science
21. IBM – Introduction to Deep Learning & Neural Networks

OTHER CERTIFICATIONS



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- 22. Foundations of Data Science: K-Means Clustering in Python – University of London
 - 23. Google - Foundations of User Experience (UX) Design
 - 24. Google - Foundations of project management
 - 25. Habis Kerja – Kelas UI/UX Mastery: Website & Mobile Apps with Figma
 - 26. Kaggle – Introduction to Machine Learning
 - 27. Kaggle – Intro to Programming
 - 28. Kaggle – Pandas
 - 29. Data science in python – Simplilearn
 - 30. Intro to data analytics – Simplilearn



LET'S GET IN TOUCH

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