Alvin Rindra Fazrie, Senior Data Scientist

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LINKS

https://alvinrindra.github.io, linkedin, github, kaggle, xing

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PROFILE

Senior Data Scientist with 8 years of experience in AI and Data Projects. Certified in TensorFlow and GCP Professional ML Engineer.

EMPLOYMENT HISTORY

Jul 2019 — Present

AI and Data Analytics Consultant , Lufthansa Industry Solutions
Hamburg, Germany

- ML Engineering: Developing and Deploying AI/ML applications to production.
  - Developing Doc Similarities model to save 15K Man-hours of MRO Engineer annually
  - Developing custom Autoscaling and Load Analysis for Advanced Driver Assistance Systems
  - Developing Flight Recommendation System.
  - ML Models: LSTM, BERT, Naive Bayes, SVM, TFIDF + Cosine Sim.
- Data Engineering: ML Metadata, Impact Analysis, Batch Processing.
- Data Mesh (Data Catalog and Governance): Datahub, Zeenea, Data Platform (Azure Synapse, Purview)

Tech stack: TensorFlow 2.0, PyTorch, Sklearn, gensim, Flask, Airflow, Spark, docker, Kubernetes, Helm, Terraform, Pylint, Pytest, Openshift AI Platform, GCP (AutoML, BigQuery, KubeFlow, VertexAI), Azure (AKS, Azure ML, Synapse).

Jul 2020 — Present

Lead Data Science Instructor , DTSense Academy
Remote

- Leading a team of data science instructors with topics:
  - AI & Machine Learning: - Supervised Learning (Vector-based: SVM & kNN; Probabilistic-based: Naive Bayes; Tree-based: Decision Tree & Random Forest)
    - Unsupervised Learning (Hierarchical & Agglomerative Clustering, Market Basket Analysis, & Principal Component Analysis)
    - Neural Networks -> Deep Learning
    - Reinforcement Learning
- Built various projects ranging from Image Classification, Text Classification, and Multimodal Deep Learning models (text and audio) using state-of-the-art architecture such as Transformer (BERT & GPT-2) for text processing
- Participated in several Data Hackathons. Built Time Series (fbprophet, XGBoost) and Natural Language Processing (BERT) models.

Mar 2019 — Jun 2019

Data Scientist , Ginkgo Analytics
Hamburg, Germany

- Developed ELK Stack for Big Data Search and Analytics Project using Elasticsearch, Logstash, Kibana + Filebeat, Anomaly Detection with Machine Learning Jobs (Single Metric and Multi-Metric), and Time-series Analysis with Visual Builder.
- Participated in Airbus AI Challenges: Developed Time Series model for Airbus Helicopters Accelerometer. Recall: 0.942, Fbetascore: 0.99, Precision: 0.99.
  ML Algorithms: OneClassSVM, K-Means, KNearestNeighbour
- Built Product Classifier Data Cases with Deep Learning algorithms (LSTM, CNN)

AWS (Sagemaker, Redshift, Quicksight, Lambda), Azure (SSIS, Azure Data Factory, Power BI)

Sep 2017 — Aug 2018

Research Assistant - Language Technology Group , Universität Hamburg
Hamburg, Germany

Worked on projects, new/s/leak 2.0 (Network of Searchable leaks), Science and Data-Driven Journalism tool http://www.newsleak.io/ and autolinks (automatic proactive researching) - https://uhh-lt.github.io/autolinks, under the supervision of Prof. Chris Biemann.
Tech stack: Scala Play, AngularJS, NodeJS, Elasticsearch, Docker, PostgreSQL, Python, NLP components: UIMA, cTAKES, Polyglot-NER.

Feb 2015 — Jan 2018

Full Stack Developer , HAUSGOLD, xrails, quantilope
Hamburg, Germany

Developed analytical dashboards and market research software in three different startups.

Frontend: ReactJS, SCSS, Webpack, E2E Test: NightwatchJS.
Backend: MeteorJS, Ruby on Rails, PostgreSQL, Docker

EDUCATION

Sep 2014 — Dec 2018

M.Sc, Universität Hamburg

Hamburg, Germany

Major: M.Sc. Intelligent Adaptive Systems.

Courses, e.g: Bio-inspired Artificial Intelligence, Machine Learning, Neural Networks / Deep Learning
Worked on the research/projects: Reinforcement Learning and Natural Language Processing

Nov 2014 — Mar 2017

Universität Duisburg-Essen

North Rhine-Westphalia, Germany.

Completed SAP modules in the area of Enterprise Resource Planning, Business Intelligence, and Advanced Business Application Programming.

Oct 2009 — Oct 2012

B.Sc, UIN Jakarta

Jakarta, Indonesia

Majoring in Computer Science focusing on Software Engineering and Artificial Intelligence.

Wrote a thesis in the area of Natural Language Processing and its implementation in the Tizen Operating System.

SKILLS

Data Science	Data Engineering
Machine Learning Engineering	Software Engineering

CERTIFICATES

May 2022 — Present

Microsoft Open Hack: Modern Data Warehousing

Azure: https://www.credly.com/badges/592717f2-ed7b-41bc-bd93-ca86d2333ee7

Apr 2022 — Apr 2024

Professional Machine Learning Engineer

Google Cloud: https://www.credential.net/profile/alvinrindrafazrie965276/wallet

Jul 2020 — Jul 2023

TensorFlow Developer Certificate

https://www.credential.net/profile/alvinrindrafazrie965276/wallet

Jan 2022 — Present

Production Machine Learning Systems; MLOps; MLPipelines

Coursera: *https://www.coursera.org/account/accomplishments/certificate/BQ2QJPZ7KXXP*

Sep 2018 — Present

Deep Learning Specialization (DNN, CNN, RNN)

deeplearning.ai : DXLWRFC2C9TL, (Tensorflow, Keras, Scikit-learn)
https://www.coursera.org/account/accomplishments/specialization/DXLWRFC2C9TL

PUBLICATIONS

Nov 2018

Action Selection Methods in a Robotic Reinforcement Learning Scenario. Cruz, F.; Wüppen, P.; Fazrie, A.; Weber, C.; Wermter, S.

5th IEEE Latin American Conference on Computational Intelligence LA-CCI.
http://la-cci.org/la-cci-2018/accepted-papers-2018/.

Sep 2017

Agent-advising Approaches in an Interactive Reinforcement Learning Scenario. Cruz, F.; Wüppen, P.; Magg, S.; Fazrie, A.; Wermter, S.

2017 IEEE International Conference on Development and Learning and Epigenetic Robotics (ICDL-EpiRob).
https://ieeexplore.ieee.org/document/8329809. Tech stack: Python, numpy, matplotlib.

LANGUAGES

English	Very good command	Indonesian	Native speaker
Deutsch	Working knowledge	Malay	Highly proficient