Alvin Rindra Fazrie, Senior Data Scientist

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LINKS https://alvinrindra.github.io/, https://www.linkedin.com/in/alvinrindrafazrie/, kaggle, github

PROFILE Senior Data Scientist with more than 8 years of experience in AI and Data Projects. Certified Azure Data Scientist, TensorFlow, and Google Cloud Professional ML Engineer.

WORK EXPERIENCE

Lufthansa Industry Solutions Hamburg, Germany
Senior AI and Data Consultant July 2019 – Present

- Developing and deploying AI/ML/Data solutions to the production with Red-Hat OpenShift AI Platform, Google Cloud, and Microsoft Azure.
- ML Engineering Projects:
    - Responsible as MLOps Work mode Lead - Defining companies' MLOps best practices and architectures
    - Developing and Deploying Flight Recommendation Systems using Hybrid Machine Learning Models.
    - Developed and deployed Document Similarities model to save 15K Man hours of MRO engineers annually
    - Developed custom Autoscaling system, deployed OpenCV Jobs, and created Load Analysis Dashboard for Advanced Driver Assistance Systems
      ML Models: LSTM, BERT, Naive Bayes, Support Vector Machine, TFIDF + Cosine Sim.
- Data Engineering: Developing ETL Pipeline (AirFlow, Azure Synapse), Ingesting ML Metadata, and enabling Impact Analysis
- Data Mesh (Data Catalog and Governance): Datahub, Zeenea, MS Purview

  Tech stack: TensorFlow 2.x, PyTorch, Sklearn, gensim, Flask, Airflow, PySpark, docker, OpenCV, Kubernetes, Helm, Terraform, Pylint, Pytest, Openshift AI Platform, GCP (AutoML, BigQuery, KubeFlow, VertexAI), Azure (AKS, Azure ML SDK V2, Synapse), MLFlow, langchain, OpenAI.

DTSense Academy Remote, Online
Lead Data Science Instructor July 2020 – Present

- Leading a team of data science instructors with the following topics:
- AI & Machine Learning: - Supervised Learning (Vector-based: SVM & kNN; Probabilistic-based: Naive Bayes; Tree-based: Decision Tree & Random Forest, Deep Learning)
- Unsupervised Learning (Hierarchical & Agglomerative Clustering, Market Basket Analysis, & Principal Component Analysis) and Reinforcement Learning
- Built various projects ranging from Image Classification, Text Classification, Sentiment Analysis, to 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.

Ginkgo Analytics Hamburg, Germany
Data Scientist March 2019 – June 2019

- Developed ELK Stack for Big Data Search and Analytics Project using Elasticsearch, Logstash, Kibana + Filebeat,
- Developed 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 Classifiers with Deep Learning algorithms (LSTM, CNN)

  Tech stack: TensorFlow, scikit-learn, AWS (Sagemaker, Redshift, Quicksight, Lambda), Azure (SSIS, Azure Data Factory, Power BI)

University of Hamburg Hamburg, Germany
Research Assistant - Language Technology Group Sep 2017 – Aug 2018

- Developed 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.

HAUSGOLD, xrails, quantilope Hamburg, Germany
Full-Stack Developer Feb 2015 – Jan 2018

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

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

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EDUCATION

UNIVERSITY OF HAMBURG Hamburg, Germany
M.Sc, Master of Intelligent Adaptive Systems. Sep 2014 – Dec 2018

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

UNIVERSITY OF DUISBURG-ESSEN North Rhine-Westphalia, Germany
Nov 2014 – Mar 2017

- Completed SAP modules in Enterprise Resource Planning, Business Intelligence, and Advanced Business Application Programming.

UIN Jakarta Jakarta, Indonesia
B.Sc, Computer Science. Sep 2009 – Oct 2012

- Focuses: Software Engineering, and Artificial Intelligence.
- 1-year Study Abroad in IIUM, Malaysia. 3 months working as Associate System/BI Developer.
- Wrote a thesis on Natural Language Processing and its implementation in the Tizen Operating System.

PROFESSIONAL CERTIFICATES

Azure Data Scientist Associate July 2023 – Aug 2024
Microsoft Azure Certification: https://learn.microsoft.com/en-us/users/alvinrindra/credentials/eeca8947aecbb75a
Skills: AzureML, AutoML, MLDesigner, MLFlow, MLOps, Azure Pipelines, GitHub Actions, ResponsibleAI, Databricks

Open Hack: Azure Cloud-Based Data Warehousing May 2022
Microsoft Open Hack Certification: https://www.credly.com/badges/592717f2-ed7b-41bc-bd93-ca86d2333ee7
Skills: Azure Data Lake Storage, Azure Data Factory, Azure Databricks, Azure DevOps, and Azure Synapse Analytics

Professional Machine Learning Engineer April 2022 – April 2024
Google Cloud Certification: https://www.credential.net/profile/alvinrindrafazrie965276/wallet
Skills: TensorFlow2.x, TFX, KubeFlow, VertexAI, BigQuery, Apache Beam, AutoML, Natural Language API, Video Intelligence API, Dataproc, Dataflow, MLOps

TensorFlow Developer July 2020 – July 2023
Google/TensorFlow Certification: https://www.credential.net/profile/alvinrindrafazrie965276/wallet
Skills: TensorFlow2.x, Supervised Learning (Classification & Regression), NLP, Computer Vision, Time-Series

Production Machine Learning Systems; MLOps; MLPipelines Jan 2022
Coursera Certificates: https://coursera.org/verify/BQ2QJPZ7KXX, https://coursera.org/verify/professional-cert/K6N69EUFWKBP

Deep Learning Specialization (DNN, CNN, RNN) Sep 2018
deeplearning.ai : DXLWRFC2C9TL, (Tensorflow, Keras, Scikit-learn)
https://coursera.org/verify/specialization/DXLWRFC2C9TL

RESEARCH PUBLICATIONS

Action Selection Methods in a Robotic Reinforcement Learning Scenario. Cruz, F.; Wüppen, P.; Fazrie, A.; Weber, C.; Wermter, S. Nov 2018
5th IEEE Latin American Conference on Computational Intelligence, LA-CCI. Tech stack: Python, NumPy, matplotlib. Link: http://la-cci.org/la-cci-2018/accepted-papers-2018/.

Agent-advising Approaches in an Interactive Reinforcement Learning Scenario. Cruz, F.; Wüppen, P.; Magg, S.; Fazrie, A.; Wermter, S. Sep 2017
2017 IEEE International Conference on Development and Learning and Epigenetic Robotics (ICDL-EpiRob). Tech stack: Python, NumPy, matplotlib. Link: https://ieeexplore.ieee.org/document/8329809.

SKILLS & INTERESTS

Technical: Python3.x, Data Science (TensorFlow2.x, PyTorch, scikit-learn, mlxtend, statsmodels, fbprophet, huggingface), Data Engineering (PySpark, AirFlow, Azure Synapse), ML Engineering (VertexAI, AzureML, MLFlow, TFX), Data Visualization (Matplotlib, seaborn, Dash + plotly, streamlit), Backend (RestAPI, FastAPI, Flask), Data Catalog and Governance (datahub, MSPurview), ResponsibleAI (fairlearn, AI scorecard, interpret, SHAP), NLP (blob, gensim, NLTK, polyglot-NER, LLM - langchain, OpenAI), Computer Vision (OpenCV, skimage), Deployment (Terraform + Helm, Kubernetes, Docker, TFServing), Logs and Monitoring (TensorBoard, Azure Monitor, Prometheus + Grafana, Elasticsearch + logstash + Kibana), Testing (PyTest, unittest, great expectation), javascript, scala, java.
Interpersonal: Communication, Emotional Intelligence, Teamwork, Attention to detail, Problem-Solving, Self-management, Leadership
Language: English (Very good command), German (Working Knowledge), Indonesian (Native Speaker), Malay (Highly Proficient)
Interests: Data Science, ML/Data Engineering, Organizations, Charity, Knowledge-sharing, Boxing, Swimming