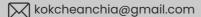


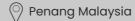
CHIA, KOK CHEAN

Data Scientist | Business Owner

Data scientist with 1+ years of broad-based experience in full-cycle data science projects. Proficient in building predictive models to drive decision-making in areas such as fraud claims and carbon emissions. Beyond data science, I've ventured into digital marketing and pursued a passion for fungi cultivation business since 2021.

+60172612339







Relevant Experience

Data Scientist | 03/2021 - 10/2021 BMW Group, Munich DE | Industry : ESG

Aim & Outcome: Identify operational emission hotspots and recommend strategies for reducing carbon footprints.

- Constructed ARIMA Class, Prophet models for univ-& multivariate electricity consumption forecasting, integrating Cholesky decomposition and regression techniques for missing data imputation.
- Designed predictive models accommodating change point events like the Covid lockdown.
- Developed actionable plans, ensuring project completion on schedule within the Full-Cycle Data Science Project Workflow.
- Collaborated across departments and with external partners, including energy providers, for comprehensive clean energy data assessment.
- Conducted a panel review with industry experts, focusing on models stability, scenario analysis, cost evaluation, and improvement strategies.

Research Intern | 11/2016 - 12/2017 Porsche AG, Weissach DE | Industry : Lubricant

Aim & Outcome: Classify used engine oil formulations, preventing false claims of engine failures due to unauthorized formulations.

- Deploy Principle Component (PCA) and Canonical Discriminant Analysis (CDA) to classify used oil formulations, considering dynamic changes in used oil chemistry.
- Design of Experiment: Optimize sampling, analytical instrument's running duration, and ensure diverse datasets.
- Developed Solid Phase Extraction (SPE) for refining sampling procedures, enhancing signal quality in specific GC spectra as an input improvement for the model.
- Z-normalization and data cleaning (SQL) to optimize standardized scale and computation time.
- Statistica-R as statistical modeling software.

Portfolio Projects

Click Portfolio Projects for details

- Start-Ups Evaluation | 11/2023
 - Identify critical factors for startup success by analyzing 54K companies worldwide
 - Random Forest & XG Boost
 - Data analyst vs data scientist workflows
- NLP Sentiment Analysis | 11/2023
 - Identifying sentiment in Amazon reviews: VADER and roBERTa models comparison
 - Aim to automate process in ecommerce business operation: product & improvement ideas, competitor analysis.

General Skills

Full Cycle Data Science Statistical Analysis

Data Storytelling Al Workflow Integration

Agile methodology Business Development

Cross - Functional Collaboration

Tech Stack

Python PyTorch TensorFlow scikit-learn

MS Office Excel Power BI SQL

AWS Service Scrapy Selenium

Business Experience

LMMJ Global Enterprise, MY

Co- Founder | 2021 - Present

CKC Biotechnology Enterprise, MY

Founder | 2022 - Present

Education

M. Sc Process & Chemical Engineering Karlsruhe Institute of Technology (KIT) DE | 2018-2021

B. Sc Process & Environmental Engineering Heilbronn University DE | 2014-2017

Language

Mandarin: Native

English: Professional Working Proficiency Malay: Professional Working Proficiency German: Professional Working Proficiency

Award

2014 | National JPA Scholarship for Bachelor Study in Germany 2018 | National JPA Scholarship for Master Study in Germany

Referees

Available upon request.

Overall Comment:

- Committed to Project Success
- High Adaptability

Personal Interest

I am passionate about driving societal progress, much like the motivation behind starting my business. I thrive in collaborative environments, particularly with motivated teams, and seek impactful projects that advance society. My interests lie at the intersection of finance and investment, environmental science, applied science, and engineering. I am also open to exploring other avenues for positive change.

I am eager to connect and contribute to the success of your team. Let's collaborate and work towards making a meaningful impact together.

Below is the testimonial letter from BMW Group



Message from BMW Group (Translated Version)

Testimonial for the Project (BMW Group)

Mr. Kok Chean Chia, born on March 18, 1993, authored his thesis in collaboration with the BMW Group at the Munich site from April 1, 2021, to September 30, 2021, in our department of Technology, Materials, and Process Analytics (TWA) at BMW AG. The thesis was titled "Analysis of Energy- and Resources-Consumption in TWA's Operation in Building 0.95".

During his tenure, Mr. Chia supported us in the following areas:

- Conducted literature research
- Gathered building-related data (machinery, water consumption, heating, ventilation, electricity, industrial gas)
- Understanding resource distribution
- Development of a statistical prediction model for electricity consumption in the building
- Familiarity with and usage of a life cycle assessment software (GaBi)
- Creation of a scalable data-collection workflow for similar-functionality and purpose buildings
- Production of a written thesis

Mr. Chia consistently exhibited the highest levels of reliability, independence, and trustworthiness in his work. He demonstrated great engagement, initiative, and commitment to his tasks. His work results were consistently of high quality, even amidst changing requirements and challenging situations. His task processing speed always exceeded our expectations.

He possesses comprehensive subject knowledge and a solid professional competence. His personal conduct was always impeccable. He was highly esteemed by superiors, colleagues, and business partners. Mr. Chia consistently completed assigned tasks to our utmost satisfaction.

Upon the completion of the thesis submission deadline, Mr. Chia departed our company on time, much to our regret. We would like to express our gratitude once again for his extremely constructive and valuable contribution as well as the results of his work, which were of great value to us. We wish Mr. Chia all the best and continued success in his future professional and personal endeavors.

"Translated by ChatGPT"



Zeugnis zur Studienabschlussarbeit

Herr Kok Chean Chia, geboren am 18. März 1993, verfasste in der Zeit vom 1. April 2021 bis 30. September 2021 in Zusammenarbeit mit der BMW Group am Standort München seine Abschlussarbeit in unserer Fachabteilung Technologie- Werkstoff- und Verfahrensanalytik (TWA) der BMW AG mit dem Thema "Analysis of Energy- and Resources-Consumption in TWA's Operation in Building 0.95".

Im Rahmen seiner Arbeit unterstützte Herr Chia uns in folgenden Bereichen:

- Literature Research
- Building-related collection of data (machinery, water consumption, heating, ventilation, electricity, industrial gas)
- Understanding the distribution resources
- Developement of an statistical prediction model regarding the electricity consumption in that building
- Understanding of and working with a life cycle assessment software (GaBi)
- Developing a scalable workflow of data-collection for other buildings of similiar functionality and purpose
- Producing a written thesis

Die Arbeitsleistung von Herrn Chia war jederzeit durch höchste Zuverlässigkeit, Selbstständigkeit und Verlässlichkeit geprägt. Er identifizierte sich mit seinen Aufgaben und arbeitete mit sehr viel Engagement und Eigeninitiative. Die Arbeitsergebnisse waren auch bei wechselnden Anforderungen und in schwierigen Fällen stets von guter Qualität. Sein Arbeitstempo bei der Aufgabenbearbeitung lag stets über unseren Erwartungen.

Herr Chia verfügt über umfassende Fachkenntnisse und eine fundierte Fachkompetenz. Sein persönliches Verhalten war stets einwandfrei. Bei Vorgesetzten, Kollegen und Geschäftspartnern war er sehr geschätzt. Herr Chia hat die ihm übertragenen Arbeiten stets zu unserer vollsten Zufriedenheit erledigt.

Nach Ablauf der Bearbeitungsfrist seiner Abschlussarbeit verlässt Herr Chia termingerecht und zu unserem großen Bedauern unser Unternehmen. Wir danken ihm noch einmal für seine sehr konstruktive und gute Mitarbeit sowie die für uns sehr wertvollen Ergebnisse seiner Arbeit. Wir wünschen Herrn Chia auf seinem weiteren Berufs- und Lebensweg alles Gute und weiterhin viel Erfolg.

Firma Bayerische Motoren Werke Aktiengesellschaft

Postanschrift BMW AG 80788 München

Hausanschrift BMW Haus Petuelring 130

Hausanschrift Forschungs- und Innovationszentrum (FIZ) Knorrstraße 147

> Telefon Zentrale +49 89 382-0

Fax +49 89 382-25858

Internet www.bmwgroup.com

Bankkonto BMW Bank IBAN DE02 7022 0300 5100 9409 40 BIC BMWBDEMUXXX

> Aufsichtsratsvorsitzender Norbert Reithofer

> > Vorstand

Oliver Zipse Vorsitzender Ilka Horstmeier Milan Nedeljković Pieter Nota Nicolas Peter Frank Weber Andreas Wendt

Sitz und Registergericht München HRB 42 243

BMW GROUP

Beurteilung Zeugnis zur Studienabschlussarbeit

Empfänger Herr Chia
Datum 30.09.2021

Seite 2

Bayerische Motoren Werke Aktiengesellschaft

i. A.

Stefan Pfurtscheller Abteilungsleiter TI-313

Thomas Schromm Betreuer TI-313



Beurteilung

Zeugnis zur Studienabschlussarbeit

Empfänger

Herr Chia 30.09.2021

Seite 3

Kriterienorientierte Beurteilung

	А	В	С	D	Е	F
	Übertrifft die Anforderungen erheblich und zu jeder Zeit	Übertrifft die Anforderungen erheblich	Übertrifft die Anforderungen leicht	entspricht den Anforderungen größtenteils	entspricht den Anforderungen in Teilen, wird als Lernfeld empfohlen	kaum wahrnehmbar, wird als Lernfeld empfohlen
Analytisches Denken		\boxtimes				
Innovationen schaffen		\boxtimes				
Kunden- und Qualitätsorientierung		\boxtimes				
Umgang mit Wissen	\boxtimes					
Eigeninitiative zeigen	\boxtimes					
Kommunikationsfähigkeit		\boxtimes				
Teamfähigkeit		\boxtimes				

Hinweis: Die Reihenfolge der Kriterien stellt keine Priorisierung dar!