

# CHUA CHEN LIANG Grad.Eng.

## MACHINE LEARNING ENGINEER

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### EXPERIENCE

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#### EVER AI HOLDINGS SDN BHD – *Machine Learning Engineer (Trainee)*

Jun 2022 – Dec 2022

- Gained hands-on experience in the development and deployment of machine learning models in a production environment.
- Worked on various projects using Python including:
  - Session-based recommender system for a job searching app
  - Dynamic pricing system for a B2B supply chain company
  - Classification and regression for one of the big 4 accounting firms
  - Text detection from images using OCR for an e-learning platform and more ...
- Had the privilege of working alongside a team of highly skilled data scientists and machine learning engineers on the development of a no-code AI platform:
  - This platform enables users to train their own machine learning models using their own data without coding and deploy the trained model into their server easily
  - Algorithms include classification, regression, time series forecasting, image classification, sentiment analysis, dynamic pricing, recommender systems, object detection, and more ...
  - Achieved more than 260 registered users since end of October 2022
- Served as a tutor for weekly “Python for Kids” classes and get involved in marketing strategy planning.

#### IIB VENTURES SDN BHD – *MyStep Trainee*

Jun 2022 – Dec 2022

- Work under MySTEP training program, which provide professional training program (Digital Start-Up for IT Professional) and on-the-job training in hosting company (Ever AI Holdings Sdn. Bhd.)
- Pass the Microsoft Certified Power BI Data Analyst Associate

#### N.S. UNI-GLOVES SDN BHD - *Production Engineer Intern*

Oct 2018 – Dec 2018

- Conduct daily production processes, production schedule planning, production estimation, R&D, QA and QC.

### EDUCATION

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#### UNIVERSITI TEKNOLOGI MALAYSIA (UTM), Johor Bahru Campus

Master of Science (Data Science)

CGPA: 4.00/4.00

Oct 2020 – Mar 2022

#### UNIVERSITI TUNKU ABDUL RAHMAN (UTAR), Sungai Long Campus

Bachelor of Engineering (Honours) Chemical Engineering

CGPA: 3.41/4.00

May 2016 – May 2020

## PROJECT EXPERIENCE

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### Sentiment Analysis Streamlit Web Application

Mar 2023

- A web application that allows users to upload own dataset for sentiment prediction.
- **Tools:** Python, Spyder IDE, Anaconda, Streamlit (library for web application)
- **Algorithms:** TextBlob, Vader, Pattern
- **Outputs:** Sentiment scores and labels, [link to project](#)

### Spotify Songs Recommender

Feb 2023

- A project of Spotify songs recommendation using collaborative filtering.
- **Tools:** Python, Spyder IDE, Anaconda, Streamlit (library for web application)
- **Algorithms:** Collaborative filtering system
- **Outputs:** List of songs recommended, [link to project](#)

### Talent Analytics of UTM Academic Staff with the Implementation of Machine Learning

Feb 2022

- Postgraduate Thesis, which focus on predicting talents in UTM using Machine Learning Approaches, specifically focused on the group of academic staff at UTM.
- **Tools:** Microsoft Excel, MySQL, Python, Jupyter Notebook, Anaconda, Power BI
- **ML Algorithms:** k-Means Clustering, DeepAR Forecasting, k-Nearest Neighbors (kNN) Classification
- **Outputs:** Confidential

### Airline Passenger Satisfaction Prediction using Machine Learning Models

July 2021

- Focuses on predicting airline passenger's overall satisfaction using classification machine learning models.
- **Tools:** RapidMiner, Microsoft Excel, MySQL, Tableau Desktop
- **ML Algorithms:** kNN, Naïve Bayes (NB), Random Forest (RF), Deep Learning (DL)
- **Outputs:** DL was chosen due to its highest performance (92.09% accuracy, 91.98% recall and 92.16% precision)

### Dashboard Development for Several Analytics

July 2021

- Design dashboard for several analytics, includes sales analytics, human resource analytics, shipping analytics and sales agent analytics using **Tableau Desktop**
- **Outputs:** [Discount Mart \(Sales\)](#) ; [Green Destination \(HR\)](#) ; [Northwind \(Shipping\)](#) ; [Superstore \(Sales Agent\)](#)

### Sentiment Analysis with Various Pre-processing Techniques and ML Models

May 2021

- Focuses on implementing and comparing different techniques of normalization, vectorization, and machine learning models for Twitter sentiment analysis using **Python**.
- **Techniques:** Normalization (Stemming, Lemmatization), Vectorization (Bag-of-Words, TF-IDF), Machine Learning Models (Multinomial NB, SVM)
- **Outputs:** SVM with Lemmatization and TF-IDF achieved highest accuracy of 70%

### Deployment of Analytical Dashboard in Human Resources Department

Feb 2021

- Aim to identify the employee attrition rate and satisfaction, investigate the factors contributing to employee resignation, predict the talents that might loss in the future, provide recommendations for HR management in order to reduce the attrition rate, and implement BIA dashboard into the HR department using **Tableau**.
- **Data Sources:** IBM HR Dataset obtained from Kaggle and GitHub
- **Outputs:** HR Dashboard

## CERTIFICATIONS

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### Online Self-Paced and/or Instructor-Led Courses:

• DeepLearning.AI TensorFlow Developer Professional Certificate	In Progress
• Machine Learning Engineering for Production (MLOps) Specialization	In Progress
• Introduction to Computer Vision	In Progress
• Thinking Like an Analyst	Jan 2023
• Introduction to DevOps	Dec 2022
• AWS Machine Learning Foundations 2022	Nov 2022
• Microsoft Certified: Power BI Data Analyst Associate	Aug 2022
• Digital Start-Up for IT Professional Certificate	Aug 2022
• Google Data Analytics Professional Certificate	Jun 2022
• HackerRank SQL (Basic, Intermediate, Advanced)	Apr 2022

## COMPETITION & CHALLENGES

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• DataDNA January 2023 Challenge – Most Nutritious Starbucks Beverages Link to Project: <a href="#">Most Nutritious Starbucks Beverages</a>	Jan 2023
• Enterprise DNA – Reporting & Data Visualization Summit – Remake Challenge	May 2022
• Onyx Data May 2022 Challenge – Nobel Prize Winners Link to Project: <a href="#">Nobel Prize Winners</a>	May 2022

## ADDITIONAL INFORMATION

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- **Languages:** Chinese, English, Malay
- **Awards:** Best Postgraduate Student Award with Dean List Medal, Undergraduate Final Year Project Poster Competition (2<sup>nd</sup> Runner-Up)
- **Societies/Memberships:** Board of Engineers Malaysia – BEM (GradEng)

## REFERENCES

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- **David Chong Teak Wei** | Head of AI Department  
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