

## DATA ANALYST

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Experienced data analyst with a passion for uncovering the potential in data. With 3.5 years of full-time experience that began during a machine learning project in a master's degree program, utilizing **statistical methods** for research. Enrolled in the California Institute of Technology Data Analytic Program in the USA in 2022 to further enhance skills. Proficient in analysis, visualization, and delivering valuable insights to drive data-driven decisions.

## TECHNICAL SKILLS

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**Expertise** : Data Analysis, Statistics  
**Technologies** : Python, SQL, Tableau, Power BI, AWS, GCP, Dataform, Azure Data Lake Storage, Stream Analytics, Azure Synapse

## EXPERIENCE

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**Sr. Data Analyst** Oct 2023 –  
*HTC Corporation* Taiwan

- Created BI dashboards using **Python** on **Azkaban** for **ETL**, **SQL** on **BigQuery**, and **Power BI** to monitor billing costs, cloud service usage, and carbon emissions for stakeholders, the chairman, and across several branch companies in the US, EU, and Asia.
- Participated in an AI hackathon as the **team leader** to develop and deploy translation and summarization APIs using **Azure App Service** and OpenAI API for internal documents and meetings. Organized meetings, planned the project, and distributed the work among team members. Collaborated with front-end and back-end teams to build a **website** enabling employees to upload documents or meeting videos for automatic summaries.
- Developed a data analysis dashboard and recommendation system for the video game R&D department to analyze customer behavior and collaborated with the marketing team for campaign planning.

**Data Analyst** Sep 2020 – Mar 2022  
*Great Wall Enterprises* Taiwan

- Performed comprehensive product quality data research using **SQL** and reported monthly KPIs to esteemed customers through **PowerPoint**
- Achieved a **30%** boost in production performance and speed through **data correlation** from various instruments and optimization techniques

**Data Analyst** Sep 2018 – Jun 2020  
*National Taiwan University* Taiwan

- Develop fullstack **Predictive Machine Learning Model** for **Population Growth** based on real-world data by **linear and non linear model**
- Statistical data is systematically **gathered, refined, and organized** using Excel, followed by meticulous analysis with **SPSS**, and presented through compelling visualizations using **PowerPoint** to generate professional reports on a bi-weekly basis

## PROJECTS

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**General Insights of Movie Industry** [Source Code](#)

- Data cleaning & data manipulation on a 3.5 million rows dataset across 7 tables by **Python**
- Performed Exploratory Data Analysis using **Python** & **Tableau**, with a consistent script and efficient data presentation notebook
- Determined top 10 features for worldwide movie rating prediction with **Machine Learning Models** by **Python**
- Used **Supabase** to architect and query and all data ingestion pipelines
- [Dashboard](#)

**Social Media Analytics 2023** [Source Code](#)

- Data is collected from various sources, cleaned by **Python** & **Excel**
- Exploratory Data Analysis & Visualization are purely executed by **Tableau** for business objectives
- Used **Firebase** to architect and query and all data ingestion pipelines
- [Dashboard I](#) [Dashboard II](#)

**Phony News Detection** [Source Code](#)

- Full stack Machine Learning Models** is applied to text content only to detect phony news existence by **Python**
- Visualization of Exploratory Data Analysis & prediction are performed by **WordCloud** & **Seaborn**

**Online News SQL Project** [Source Code](#)

- Data is collected by **API key** to build up a database by **Python**
- SQLite** is used for news trend research

## **Population Growth Predictive Model**

Publication

- Pioneering on **Machine Learning Models** to approximate the behavior of bacteria population in Taiwan
- Real-world data is cleaned and manipulated by **Excel & SPSS** , **Machine Learning Models** conducted by **IPMP** and data visualization performed by **PowerPoint**
- Determined temperature features on the growth of bacteria population with **Machine Learning Models** and created a **Full stack** application

## **EDUCATION**

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### **California Institute of Technology Data Analytic Program**

*Python Pro Award graduate*

United States

*Oct 2022 – Sep 2023*

### **Master of Science at National Taiwan University**

*Food Science*

Taiwan

*Sep 2018 – Jun 2020*

### **Bachelor of Science at Taipei Medical University**

*Nutrition & Health*

Taiwan

*Sep 2011 – Jun 2016*