

Alexander Vincent Lewi

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EDUCATION

Singapore Management University <i>B.Sc. (Information Systems), majoring in Business Analytics with 2nd major in Data Science</i>	Singapore Aug 2021 – May 2025
Saint Joseph College Senior High School <i>Diploma in Science</i>	Malang, Indonesia Jul 2018 – May 2021

EXPERIENCE

Data Analyst Intern | Tribelio Indonesia | May 2023 – August 2023

- Leveraged advanced statistical techniques and data mining tools to perform in-depth analysis of transaction data and user behavior.
- Led the development of a user tracking system on the platform, effectively increasing the company's ability to monitor and understand user interactions and engagement.

Data Associate | SMU Business Intelligence and Analytics Club | Dec 2022 – March 2023

- Led a co-learning session on Computer Vision, enhancing the knowledge and skills of fellow data associates.

Curriculum Director | SMU Business Intelligence and Analytics Club | March 2022 – May 2023

- Curated and delivered data science workshops to SMU students to enrich and garner their interest.
- Developed data science workshop materials for ExploreSCIS'22, an outreach program targeting prospective students from JCs and Polytechnics.

Lighting Department Head | Gelar Budaya 2023 & 2024 | Dec 2022 – March 2024

- Led a team of talented people to design and implement innovative lighting designs for the musical.

PROJECTS

satelilit.ai – Final Year Project | Aboitiz Data Innovation

- Worked closely with a senior data scientist to build a real estate price prediction platform, designed to assist homeowners in Metro Manila with determining the optimal selling price for their properties.
- Carried out thorough research and experiments in building an ensembled deep learning and tree-based models that leverages spatial interpolation and satellite imageries to predict property prices.
- Pre-trained Inception-ResNetV2 on RESISC45 dataset to perform transfer learning, improving the model's capability to predict real estate prices through visual data.
- Integrated SHAP for model interpretability, offering users clear, game theory-based explanations of predictive outcomes, increasing trust and understanding of property valuations.

Movie Recommender

- Scraped over 100,000 movies from IMDb using BeautifulSoup4 and Selenium.
- Implemented a neural network model to perform embedding-based collaborative filtering, considering both user-based and item-based similarity to provide personalized movie recommendations.
- Enhanced recommendation accuracy by integrating content-based filtering to analyze movie metadata.

PUBLICATIONS

DLVS4Music2Sheet

- Accepted for RAFDA 2024 (Workshop of PAKDD 2024), May 7th.
- Developed a novel music source separation system to transcribe multi-vocal acapella audio into sheet music.
- Engineered a custom source separation pipeline that leveraged advanced deep learning models, Open-Unmix and Band-Split Recurrent Neural Networks (BSRNN).

TECH STACK

- Data Science & Analytics: Python (TensorFlow, PyTorch, SKLearn, SHAP), R, Tableau, Alteryx, BS4, Selenium
- Web Development: JavaScript (ReactJS), SQL (Supabase), NoSQL (Firebase), Docker, FastAPI, Flask, Figma
- Certification: AWS Certified Cloud Practitioner