Vincent Leonardo

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ABOUT

A keen and highly motivated multidisciplinary learner obsessed with anything AI and data related. Currently seeking a career in building web interfaces and ML/DL models to make the world a better place. Loves crafting tools and interfaces to allow for easier usage of prediction models and data visualisation. Enjoys collaborative work and creative problem-solving.

EDUCATION

Singapore University of Technology and Design   **Singapore**
Bachelor of Engineering with Honours (Engineering Systems and Design)   **May 2019 – Present**

- Expected to graduate in September 2022. SUTD Undergraduate Merit Scholarship holder.
- AI-related courses: 50.038 Computational Data Science, 50.039 Deep Learning, and 40.319 Statistical and Machine Learning.

EXPERIENCE

What Is Up, Indonesia? ⭘ 🌐   **Singapore**
Newsletter Writer & Web Developer   **May 2022 – Present**

- Ideating content discussing Indonesian socio-politics in English that reaches over 100,000 followers on Instagram↗.
- Pioneering weekly newsletter↗ going in-depth into Indonesian news headlines that is currently growing beyond 500 subscribers.
- Initiated and spearheading the design and development of the main website using Next.js (React) with MDX templates.

SUTD 60.002 AI Applications in Design   **Singapore**
Teaching Assistant   **Jan 2022 – May 2022**

- Mentored seven groups in their projects involving web scraping and NLP using PyTorch and TensorFlow.
- Taught critical thinking skills to solve errors, debugging, and design solutions using AI.

Shopee Pte Ltd   **Singapore**
Regional Operations (Fraud) Intern   **May 2021 – Sep 2021**

- Wrangled and examined large user behavioural datasets spanning millions of rows using PySpark, Spark SQL, and Excel.
- Ideated and ran impact analysis on rules that reduce instances of fraud, collaborating with three other departments.

PROJECTS & COMPETITIONS

Gait Recognition Model and Analytics   **Singapore**
Klass Engineering Pte Ltd   **Jan 2022 – Present**

- Scripted first public silhouette extraction tool↗ using OpenCV and MMDetection instance segmentation models for model data input.
- Synthesising back-end clustering pipeline using ensembled OpenGait embeddings, FastAPI server, and PostgreSQL database.
- Leading system administration of the Debian-based systems used (deep learning packages, SSH, and error handling).

Music Genre Classification ⭘   **Singapore**
SUTD 50.039 Theory and Application of Deep Learning   **Jan 2022 – May 2022**

- Crafted a lightweight parallel CNN model to classify music genres using the GTZAN dataset to achieve around 80% accuracy.
- Split inputs into three-second chunks, and ensembling predictions based on these chunks for unseen data of any length.
- Created a simple CLI application and a prototype web interface↗ for ease-of-use.

Classification of MBTI Type Based on Past Posts on Internet Forums ⭘   **Singapore**
SUTD 50.038 Computational Data Science   **Oct 2021 – Dec 2021**

- Merged a CNN with an LSTM using PyTorch to predict the MBTI of forum users based on past posts to achieve an accuracy of 78%.
- Experimented with SVM, logistic regression, decision trees, and ensemble models as well to find the best method.

Agent-Based Modelling for Airport Arrivals in a Post-Pandemic World ⭘ 🌐   **Singapore**
SUTD 40.015 Simulations Modelling Analysis   **Oct 2021 – Dec 2021**

- Project was highlighted for the course in the ESD pillar newsletter↗ in early 2022.
- Designed and assembled modular and customisable simulation using d3.js and Plotly.js.

Synthesis Sustainability IRL Data Challenge ⭘ 🌐   **Singapore**
Synthesis & Treatsure   **Oct 2021 – Nov 2021**

- Directed the team of three to win third place↗ in the data science challenge among around 135 participants.
- Modelled word associations and sentiments on food surplus consumption from Twitter and Instagram posts in the past five years to consult Treatsure on persuading more people to consume surplus food.

CO-CURRICULAR ACTIVITIES

SUTD 9th Student Government (ROOT)   **Singapore**
Advisor, Media & Marketing   **Nov 2020 – Feb 2022**

- Advised and assisted the Media & Marketing team of seven on student engagement projects and ROOT brand guidelines.
- Co-led the Mental Health Awareness Week initiative that reached over 50% of the university population through videos and stickers.

ADDITIONAL INFORMATION

- Native English and Bahasa Indonesia speaker.
- Comfortable in Linux/Unix-based systems and shell scripting, especially in web servers and for deep learning purposes.
- Enjoys history, linguistics, music, and tinkering with technology to automate various things, including this résumé↗.