Olivia Lee

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EDUCATION

Boston University   Boston, MA
M.S. in Applied Data Analytics – GPA: 3.9/4.0   May 2023

University of Michigan   Ann Arbor, MI
B.S. in Mathematics   May 2022

Relevant Coursework
Neural Networks | Big Data | Algorithms | Data Structures | Data Visualisation | Statistics | Applied Regression

TECHNICAL SKILLS

Programming	Python (Tensorflow/Keras, PySpark), R, SQL, C++, MATLAB
Frameworks	Google Cloud Platform (GCP), Kubernetes, Airtable, Webflow, Google Analytics

EXPERIENCE

Builders Patch — Software Startup   New York, NY
Product Manager & Data Scientist   Jan. 2024 - Present
- Orchestrated end-to-end **product lifecycles**, bridging technical concepts between product and engineering
- Drove feature prioritization through **cross-functional collaboration** and client engagement
- Executed **SQL** queries for data collection, generating marketing **data visualizations** in Python
- Implemented a rule-based algorithm to **standardize data** for comparative data analysis

Data Analyst   May 2023 - Dec. 2023
- Led full-cycle development of a public data dashboard, including **exploratory data analysis** and the **automation** of data aggregation and visualization in Python to highlight key insights
- Initiated the automation weekly of data entry in **Webflow** CMS collections, streamlining site maintenance
- Served as a product expert, **troubleshooting** and **resolving roadblocks**, being the go-to for inquiries

CIMB Niaga — Banking   Jakarta, Indonesia
Advanced Analytics Intern   Jun. 2022 – Jul. 2022
- Scripted automation in **R**, saving **100 hrs/mo.** of manual data cleaning efforts
- Performed **SQL-based analysis**, delivering actionable insights for data-driven decision-making
- Communicated data and findings, leveraging **visual reports** to capitalize on marketing campaigns

PROJECTS (PORTFOLIO: OLIVIAJYLEE.COM)

TED Talk Summarization | *Python, NLP*   May 2023
- Leveraged Wav2Vec and tokenizers to convert speech to text with **89% character accuracy**
- Implemented various algorithms (eg. **BERT**, KeyBERT, spaCy) to extract keywords and keyphrases

Brain MRI Classifier | *Python, Vision Transformer*   Apr. 2023
- Developed a ViT model to detect tumors from brain MRI scans with **88.83% accuracy**
- Utilized overfitting prevention techniques and hyperparameter tuning for model optimization

Flight Analytics | *Python, Spark, Big Data*   Apr. 2023
- Built ML models (regression & classification) for flight delay prediction on **60M** rows of data
- Utilized Spark for parallelization of tasks and deployed model on GCP with a **8.8GB** dataset

Uber vs. Lyft Prices | *R, Exploratory Data Analysis*   Nov. 2022
- Applied **statistical hypothesis testing** (t-tests, ANCOVA) to identify significant price differences
- Communicated statistical findings into easily understandable content with visualizations

ADDITIONAL

- Languages: English (Native), Malay (Fluent), Indonesian & Korean (Intermediate)
- Self-taught sewist & crochet artist, upcycling materials and making clothing and accessories from scratch