Sean Wiryadi
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Education

Columbia University   **New York, NY**
M.S. in Business Analytics   *Aug 2024 - Present*
New York University   **New York, NY**
B.S. in Data Science, **GPA: 3.71 Dean's List**   *Sep 2021 - May 2024*
Relevant Coursework: Data Structures, Advanced Machine Learning, Causal Inference, Data Management & Analysis, Natural Language Processing, Linear Algebra, Probability & Statistics, Responsible Data Science and Deep learning.

Experience

Cooked.ID   **Jakarta, Indonesia**
Founder   *Jun 2021-Present*
- Launched a monthly subscription service delivering notifications of retail releases to members, achieving a **90% retention rate**.
- Attracted an average of **100** new members per month, generating **100 million IDR (6,000 USD)** in revenue within **3 months** and maintaining a monthly profit of **40 million IDR (2,500 USD)**.

Simpang Raya Restaurants   **Jakarta, Indonesia**
Data Engineer   *May 2024 - July 2024*
- Engineered and deployed **ETL process** to integrate diverse data sources to optimize data flow and operational efficiency.
- Created and enforced rigorous **SOPs for ETL processes** to ensure data integrity and consistency.
- Created an **analytics dashboard** to provide real-time insights into business operations to support data-driven decision-making.

Klinik Pintar   **Jakarta, Indonesia**
Data Scientist Intern   *Jun 2023 - Aug 2023*
- Processed millions of patient records by implementing **SQL joins** and **data cleaning** techniques to create a refined dataset.
- Performed in-depth data analysis, creating reports detailing **patient visits**, **disease trends**, **medicine usage**,and other metrics.
- Developed a time series forecasting model using **LSTM** to optimize inventory management, successfully eliminating stockouts.

Verdhana Sekuritas   **Jakarta, Indonesia**
Research Intern   *Jun 2022 - Aug 2022*
- Conducted market research and analysis on Indonesia's mining and fossil fuel sectors to, identifying key investment opportunities.
- Advised on long and short equity positions, contributing to a **5% increase** in returns.
- Developed monthly client reports by preparing market assessments and competitors analysis.

Personal Projects

Automatic Piano Music Transcription - Transcribe mp3 to sheet music   **Mar 2024 – May 2024**
- Developed a deep learning model to transcribe piano music using **deep neural networks (DNN)** and **RNNs: LSTM**.
- Preprocessed data using **Constant-Q Transform (CQT)**, **normalized data**, and applied regularization techniques such as **Dropout** and **early stopping**.
- Achieved **40% accuracy** with DNN and **2% accuracy** with LSTM, approaching the industry standard of **56%**

Natural Language Processing - Information Retrieval   **Mar 2024 – May 2024**
- Constructed a **knowledge graph** from unstructured text using NLP techniques: **Stop Word Removal**, **TFIDF**, **Cosine Similarity**, **Lemmatization**, and **Normalization**.
- Evaluated a Hugging Face dataset, achieving **59.40% accuracy**, **18.18% recall**, **71.43% precision**, and F_1**-Score of 28.99%**.

Automation Program to Secure Highly Sought-After Reservations   **Aug 2022 – Present**
- Engineered a software tool to automate the process of obtaining high-demand restaurant reservations through Resy and OpenTable and achievied **more than 100 successful reservations**.
- Created a notification system to alert users when timeslots are available using Resy and OpenTable API on Discord and Telegram.

Automated Purchase Program for Exclusive Sneakers and Concert Tickets   **Jun 2021 – Present**
- Developed an automation program to seamlessly execute purchases of limited-edition sneakers and concert tickets.
- Enhanced the tool's efficiency by integrating **multi-threading**, **proxies**, and implementing **captcha bypass** strategies, achieving nearly **1000 successful checkouts** and generating **100,000 USD** in revenue.

Community Involvement

New York University Indonesian Student Association Treasurer   **Sep 2021 – Aug 2023**
- Oversaw the financial health of **five** departments, presenting monthly performance updates to executive members.
- Organized meetings with department heads to strategize and plan events and gatherings.
- Managed the association's overall financial activities, including reporting, budgeting, and fundraising.

Technical Skills

Coding Languages: Python, HTML, Java, JavaScript, CSS, C++, R, SQL, LaTeX
Frameworks/Libraries: React, NodeJS, PyTorch, TensorFlow, Scikit-Learn, BeautifulSoup, Requests, Selenium
Tools/Platforms: MongoDB, AWS, GCP, Microsoft Office, Canva, Figma
Languages: English, Mandarin Chinese & Bahasa Indonesia