

SEAN WIRYADI

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Education

Columbia University

M.S. in Business Analytics

New York, NY

Aug 2024 - Present

New York University

B.S. in Data Science, GPA: 3.71 Dean's List

New York, NY

Sep 2021 - May 2024

Relevant Coursework: Data Structures, Advanced Machine Learning, Causal Inference, Data Management & Analysis, Natural

Language Processing, Responsible Data Science and Deep learning.

Experience

Cooked.ID

Jakarta, Indonesia

Founder

Jun 2021-Present

- Launched a monthly subscription-based service offering exclusive access to notify members of new releases made by retailers.
- Achieved a consistent **90%** member retention rate and attracted an average of **100 new members** each month.
- Generated revenue of **100 million IDR** within the first three months and maintained a monthly profit of **40 million IDR**.

Klinik Pintar

Jakarta, Indonesia

Data Scientist Intern

Jun 2023 - Aug 2023

- Analyzed a dataset of 10 potential clinic sites, focusing on factors like land cost, population density, and public access to select the optimal location for a new clinic.
- Utilized **PCA** and **Regression** to forecast site profitability based on economic capacity, accessibility, and demand.
- Presented a report recommending a site, resulting in a **50%** monthly increase in visits, doubling patients in **two** months.

Verdhana Sekuritas

Jakarta, Indonesia

Research Intern

Jun 2022 - Aug 2022

- Conducted in-depth market research and data analysis on mining, and fossil fuel sectors in Indonesia, identifying key investment opportunities.
- Advised on long and short positions in equities based on comprehensive stock analysis, contributing to a **15% increase** in returns.
- Contributed to the development of monthly client reports by preparing market assessments and competitors analysis.

Personal Projects

Automatic Piano Music Transcription

Mar 2024 – May 2024

- Deep learning model to automatically 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 - Onsets were correctly detected.

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 the model on earnings call transcripts from the Hugging Face dataset (here), achieving **59.40% accuracy**, **18.18% recall**, **71.43% precision**, and an F_1 -Score of **28.99%**.

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.
- Boosted the tool's efficiency and success rate by integrating **multi-threading**, **proxies**, and implementing **captcha bypass** strategies, achieving nearly **1000 successful checkouts** and generating **\$100,000** in revenue.
- Implemented robust error-handling mechanisms to ensure high success rates.

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 achieving **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.

Script Development

Jun 2021 – Present

- Developed a web crawler using BeautifulSoup to scrape data and notify users on updates like **housing**, **stock prices**, and **new product listings** across targeted websites with real-time notifications through Discord and Telegram.
- Optimized the performance of scripts by implementing **multi-threading**, significantly reducing the time for data collection.
- Implemented robust error handling and recovery mechanisms to ensure the stability of scripts during extended operations.

Extra Curricular Activities

New York University Indonesian Student Association Treasurer

Sep 2021 – Aug 2023

- Oversee the financial health of **5** different departments and present monthly performance updates to executive members.
- Organize meetings between department heads to determine future strategic action plans such as planning events and gatherings.
- Manage overall function of association's finance activities including financial 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