HUI (HENRY) CHEN

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EDUCATION

New York Institute of Technology

New York, NY

Master of Science in Data Science (CGPA: 3.96/4.00)

Sep 2021 - May 2022

Courses: Data Visualization, Computational Statistics, Optimization, Big Data, Machine Learning, Deep Learning

Bachelor of Science in Computer Science (CGPA: 3.51/4.00)

Jan 2018 - May 2021

Concentration: Big Data Management and Analytics with the distinction of Magna Cum Laude

Courses: Data Structure, Probability and Statistics, Data Mining, Information Retrieval, Distributed Database Systems

SKILLS

Programming Languages: Python, SQL, NoSQL, R, Java, JavaScript (React Native), PHP, HTML/CSS, MapReduce, Bash

Libraries: Scikit-Learn, pandas, numpy, cupy, matplotlib, seaborn, XGBoost, scikit-image, NLTK, cuml Tools: Excel, Git, Flask, PySpark, Hadoop, Apache Superset, spaCy, MongoDB, Firebase, Redis, Docker Data Science: Data cleaning, Data visualization, Data mining, Regression, Classification, Deep Learning, NLP

EXPERIENCE

JobLogic-X Corporation

New York, NY

Data Scientist Intern (Scikit-learn, Python, Streamlit, XGBoost, opency)

Feb 2022 - Jul 2022

Led a team of 6 Data Scientists to design and deploy an end-to-end hybrid recommendation engine with computer vision.

- Undertook Needfinding and analyzed the results from 90+ people in order to identify new products and clients.
- Conducted EDA on the client data with 46 features to investigate trends, outliers, missing data, anomalies, and bias.
- Enhanced training data using image augmentation and over-sampling on multiclass XGBoost to achieve 94% recall.
- Optimized the recommendation engine by using CV to cluster products on handcraft features (HoG, LBP, and SIFT).

New York Institute of Technology

New York, NY

Graduate Assistant (Node.JS, AWS, Python, JavaScript, React Native)

Sep. 2021 - May 2022

- Showcased an end-to-end mobile app on a conference implemented and deployed through AWS Lambda, DynamoDB, React Native, and Node.Js in order to bring awareness of global native land.
- Implemented an internal tool to perform and boost plagiarism checks through the Cosine Similarity algorithm and resulting in reducing 70% time on plagiarism checking.

PROJECTS

Personal Site: hchen98.github.io **'** (for additional information and projects)

Image Classification | Python, TensorFlow, Nvidia Rapids, Scikit-learn, CuPy, opency

Feb. 2022 - May 2022

- Analyzed the imbalance data of different handcrafted features (LBP, HoG, SIFT) and feature selection (PCA) with SVM for medical and facial expressions recognition using GPU acceleration to achieve 93.3% accuracy and 0.93 AUC.
- Applied image augmentation techniques to enrich the training data and boost the SVM model accuracy by 18.5%.
- Documented the experiment results of cross-validation and feature engineering through Excel, plotly, Weights & Biases.

Job Skillset Seeking Python, R, pandas, plotly, spaCy, NLTK, shiny, ggplot2, NLP

Feb. 2022 - May 2022

- Built an interactive data visualization dashboard to better understand the job skill datasets through R, plotly and, shiny.
- Applied spaCy and NLTK tool on job documents to extract keyword data, tokenization, and lemmatization from utils packages to better understand NLP.

Scholar Seek 🔼 | Python, JavaScript (React), Web Scraping, AWS, MongoDB, Flask, Docker

Feb. 2021 - May 2021

- Showcased an end-to-end cross-platform mobile app for students to create their profiles and receive personalized content-based filtering (Cosine Similarity) in scholarships, colleges, and majors to the NYIT engineering department.
- Web-scraped 2.7 million rows of semi-structured scholarship data and 3.5k+ rows of unstructured US-college data by using selenium with anti-captcha and real-time authentication.
- Designed and documented RESTful APIs for backend server to enable a secured and encrypted token integration of the client-side devices, recommendation models, and MongoDB through Flask and JWT.
- Deployed the backend for production and test environments, performed functional testing, and containerized the recommendation models, RESTful APIs, and web-scrapings to AWS EC2 through Docker.