

Arnold Hsingkuang Liu

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EDUCATION

Illinois Institute of Technology

Master of Information Technology and Management

Specialization in Data Analytics and Management, Current GPA : 4/4

Chicago, IL

August 2021 - Expected June 2023

JSS Academy of Technical Education

Bachelors of Technology in Electrical Engineering

Division: First

Noida, India

July 2014 - June 2018

EXPERIENCE

KnowYourMeds

Software Engineer

Pune, India

January 2021 - July 2021

- Dealt with the world's largest database of suspected side/adverse effects (World Health Organization).
- Collaborated closely with senior management to connect product goals and medical research for identifying, planning, and executing data science techniques.
- Implemented classification models that predicts severity and susceptible levels of side effects, caused by top selling pharmaceuticals on individual users with more than 90% accuracy.
- Created regression models for recommending alteration amount of medicine dose in event of side effects with adjusted R2 more than 80%.

Intelligent Machines Lab

Data Analyst

Pune, India

September 2018 - December 2020

- Constructed classification models to detect medication's suspect levels for most common adverse reactions with accuracy above 85%.
- Analyzed datasets for various departments to support decision making, increasing customer retention by 25%.
- Implemented a clustering-based recommendation system improving user engagement by 5 times more.
- Coordinated with the database team to build data warehouses and automate data pipelines.
- Built and managed database systems including pharmaceutical data from various countries around the globe.
- Performed data scraping tasks for various machine learning applications.
- Researched and analyzed data for AI medical research under medical experts.
- Designed and improved data models for different applications adapting to the fast-paced data and UI changes.
- Created scripts to automate data tasks saving ~ 2 hours of manual work each day.
- Developed a chatbot generating reports of health management recommendations for users using Rasa.
- Coordinated with the development team to plan real-time analytical dashboards.

SKILLS & INTERESTS

Technical skills: Data Analytics, Data Visualization, Data Mining, Machine Learning, Data Science, Data Warehousing, ETL, Database Management, Web Scraping

Programming Languages and Tools: SQL (Postgres, Oracle SQL, MySQL) Python (Numpy, Pandas, Matplotlib, Seaborn, Scikit-learn, BeautifulSoup, Rasa), R, Tableau, Jupyter Notebook, Pentaho - Kettle, HTML, CSS.

Languages: English (native), Hindi (native)

Interests: Soccer (national level gold medalist), athletics (state level gold medalist), traveling, fitness