Mohamad Hishmeh

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Professional Summary

Mohamad Hishmeh is an innovative Software Engineer that has experience in creating applications with an emphasis on data analysis and visualization. He is proficient in Python and SQL to extract insights from data to power data-driven decisions.

Education

- **University of Illinois Chicago** — Chicago, IL
  Bachelor of Science in Math and Computer Science; GPA: 3.7 — *Aug. 2021 – Dec. 2023*
- **University of Illinois Chicago** — Chicago, IL
  Bachelor of Science in Psychology; GPA: 3.7 — *Aug. 2017 – Dec. 2023*

Professional Employment

- **Wingz It Iz** — Calument Park, IL
  Restaurant Manager — *Jan. 2019 - March 2022*
  - **Hiring**: Conducted interviews, oversaw the hiring process, and ran staff training for 10+ employees to ensure a friendly and welcoming customer experience.
  - **Pandemic**: Adapted to pandemic practices, signing on with UberEats, Grubhub, and DoorDash to exceeded weekly sale targets by 11% during mid-late 2020.
  - **Reduced Costs**: Reduced variable costs by 7% through tighter control on inventory waste and switching to a local supplier with lower ingredient costs.

Projects

- **Docker-Deployed Sentiment Analysis Solution**
  Developed a Sentiment Analysis Solution Through the Creation of a Web-based Application
  - **Technologies**: Utilized Flask, Docker, and GitHub Actions, to deliver a robust and scalable solution for restaurant sentiment.
  - **Integration**: Made the sentiment analysis available through a REST endpoint, making it easy to use in other apps.
  - **Scalability**: Ensured the robustness and reliability of the solution through the utilization of Docker, resulting in a highly portable and easily deployable application.
  - **Automation**: Automated and monitored the entire development process, leveraging GitHub Actions to deliver a highly efficient and streamlined workflow.
- **Spine Biopsy Research**
  Offered Consulting for Loyola University Medical Center on Efficacy of their Spine Biopsy Procedures
  - **Analysis**: Collaborated with primary radiologist to perform cohort analysis that identified 70 percent of patient biopsies did **not** affect their antibiotic protocol, resulting in better allocation of resources for the hospital.
  - **Data Collection**: Developed a python script to use SQLite to query data from hundreds of patients at Loyola. Analyzed data to see which patient comorbidities resulted in a higher chance of antibiotic protocol change.
  - **Visualization**: Created various charts and graphs using matplotlib to effectively communicate the findings to radiologist.
- **Sentiment Analysis**
  Developed a Python Web Scraper to Detect Restaurant Sentiment
  - **Data Mining**: Collected data by building a web scraper using the Python module BeautifulSoup to gather all yelp reviews for Wingz it iz to assess customer sentiment.
  - **Natural Language Preprocessing**: Iterated through each review to remove all stop-words for accurate text processing; ran text through natural language processing model to assess polarity and subjectivity of each review.
  - **Response**: Successfully identified key areas of improvement based on criticisms from reviews, and implemented changes to increase sales and customer satisfaction.