

SAM KADOUH

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EDUCATION

Columbia University | Dec 2024

Master of Science, Applied Analytics | GPA: 4.0

Courses: Data Storytelling, Advanced Machine Learning, Frameworks & Methods, Strategy & Analytics, Entrepreneurship

Societies: LLM Consulting Club, Analytics Consulting Group, Business Management Club, Applied Analytics Club

Brunel University London | July 2022

Bachelor of Engineering in Electrical & Computer Engineering | Upper Second-Class Honors

Courses: AI Systems, Advanced Computing Techniques, Object Oriented Systems & Programming

WORK EXPERIENCE

Stealth Startup | Oct 2024 – March 2025 | New York, NY

Backend Software Engineer

- Designed and implemented OpenAPI specifications (YAML) for Notion, X, DropBox, and Github using Swagger UI for documentation and testing.
- Built CNCF serverless workflows integrating multiple APIs, automating tasks like creating Github issues and sending a notification on Slack.
- Developed RAG-enhanced API endpoints to better understand user intent and dynamically generate workflow definitions.
- Designed and developed backend services, integrated authentication, and leveraged serverless computing for asynchronous workflow execution.

Credico | Jun 2024 – Aug 2024 | Chicago, IL

Business Intelligence Analyst Intern

- Designed and implemented an algorithm using Qlik Application Automation to generate 40-page reports for consultants on a weekly schedule, reducing manual labor by 4 hours per week and saving the company \$120,000 annually.
- Recommended and implemented custom thumbnail graphics for Qlik Sense applications, enhancing user interface aesthetics and improving application navigation efficiency, leading to a 15% increase in user adoption and satisfaction.
- Managed distribution lists in Qlik NPrinting for automated internal reporting, enhanced report visuals and formatting, and conducted quality control checks on data, ensuring accuracy and consistency.

Brunel University London | Sep 2021 – Feb 2023 | London, UK

Data Analyst & NLP Engineer

- Developed a front-end website that retrieves Twitter data via API based on user-input keywords, using Python for sentiment analysis, word counts, frequency analysis, and word clouds to deliver insightful visualizations.
- Structured a PostgreSQL database to store tweets from Twitter API using Tweepy, enabling efficient data management and analysis.
- Utilized NLP and text analysis techniques to provide actionable insights, offering an understanding of the sentiment of the word.

Money Expert | Oct 2020 – Sep 2021 | Surrey, UK

Business Data Analyst

- Analyzed user behavior and app performance metrics to deliver actionable insights that informed UI/UX enhancements, contributing to a 30% increase in mobile user engagement.
- Worked closely with the Business Intelligence team to design and maintain automated reporting pipelines using SQL, improving reporting efficiency and reducing retrieval time by 25%.
- Collaborated with cross-functional teams to align data initiatives with business objectives and support data-driven decision-making.

RESEARCH EXPERIENCE

Financial Institution | Sep 2024 – Dec 2024 | New York, NY

Capstone Project: Anti-Money Laundering Detection Using Machine Learning

- Developed a machine learning model to detect Anti-Money Laundering (AML) activities, focusing on three main typologies.
- Analyzed financial company and industry data to create predictive models for detecting suspicious behavior.
- Utilized Python and R, data visualization, and econometric modeling to process and analyze large datasets. □

TECHNICAL SKILLS

- Languages: Python, R, SQL, Typescript, JavaScript
- Computer Skills: Pandas, NumPy, Matplotlib, Seaborn, Plotly, ggplot2, Excel (Advanced), PostgreSQL, MySQL, MongoDB, scikit-learn, NLTK, TensorFlow (Basic), Jupyter Notebook, Git/GitHub, Tableau, Power BI, VS Code, API integration