

SAMAN KASHANCHI

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DATA SCIENTIST & MACHINE LEARNING ENGINEER

Versatile and accomplished Data Scientist with a solid foundation in Computational Data Science and Mathematics, boasting a record of initiating and leading data-driven projects to successful completion. Proficient in leveraging advanced analytics, machine learning models, and data visualization techniques to drive strategic business decisions and operational efficiencies. Recognized for excellence in automation, demand forecasting, and research contributions.

AREAS OF EXPERTISE

Data Analysis & Modeling | Advanced Data Science | Machine Learning & Deep Learning
ETL Processes | Database Management | Workflow Automation | Generative Modeling | Research & Development |
Operational Optimization | Project Management | C-Suite Presentations

Programming: Python | R | SQL | JavaScript | HTML/CSS

Machine Learning & Artificial Intelligence: TensorFlow | Keras | scikit-learn | Hugging Face

Data Visualization: Tableau | PowerBI | Streamlit | Plotly-Dash

Database Tools: MySQL | SQLite | AWS | MongoDB

Workflow Automation: Apache Airflow | Docker | Selenium

Certificates: Applied Statistical Analysis | Bloomberg Certified | Mediation & Conflict Resolution

EDUCATION

MASTER OF SCIENCE, COMPUTATIONAL DATA SCIENCE (Emphasis in Mathematics) | 2022

BACHELOR OF SCIENCE, COMPUTER SCIENCE (Minor in Economics) | 2021

Chapman University | Orange, CA

PROFESSIONAL EXPERIENCE

Jetro Restaurant Depot | Anaheim, CA

11/2022 – PRESENT

DATA SCIENTIST

- Developed a custom simulation of the supply chain in OpenAI's Gym API with reinforcement learning to optimize product ordering, using advanced algorithms like PPO and A3C to refine training and policies.
- Advanced demand forecasting with Prophet models to improve inventory management, markedly reducing stockouts by 2% throughout western region.
- Developed a custom landing page using Plotly's Dash and StreamLit (both front end and back end), fostering transparency for purchasing, logistics, and inventory control teams. Delivered actionable insights for data-driven executive decisions.
- Led the development of a comprehensive invoice auditor system across 5 cross-dock facilities. Engineered data storage for live cost analysis dashboards, enhancing cost accuracy and enabling dynamic price adjustments. Introduced auditing algorithm, saving \$750,000 by identifying duplicate charges, overpayments, and errors.
- Developed dozens of Apache Airflow DAGs including ETLs, backend processes for dashboards, comprehensive reports, and web scrapers.

Chapman University | Orange, CA

01/2022 – 11/2022

RESEARCH SPECIALIST, MACHINE LEARNING

- Led the development of innovative Neural Network architectures, including Deep Residual networks and custom tandem models, tailored for the optics physics department. These advancements notably reduced mean squared error (MSE) and tackled optical scattering challenges, benefiting the department's research endeavors.
- Spearheaded the use of cGANs and Variational Autoencoders to improve generative modeling, achieving notable benchmarks in MSE reduction and advancing the team's capabilities in data-driven design.
- Mentored undergraduate and graduate students in completing research projects, providing guidance in optics research, and developing machine learning tools to aid engineering departments.
- Published research in scientific journals and presented at major national conferences.

Coast Sign Inc. | Anaheim, CA

06/2020 – 06/2021

DATA ANALYST INTERN

- Collaborated with the CTO to refine raw data processing, leveraging SQL, PHP, HTML, and JavaScript to create and integrate inventory databases, enhancing data utility for operational decision-making.
- Implemented and optimized internal ERP software (Mass500) functionalities to streamline supply chain processes, improving efficiency and project management throughout the organization.

PROJECTS

RITHM (Algorithmic Investing) | Los Angeles, CA

CO-FOUNDER

- Co-led the creation and execution of statistical arbitrage trading algorithms in the foreign exchange market, achieving a notable average annual return of 11%, with a team of computer science, engineering, and math students.
- Integrated Hidden Markov Models for advanced predictive analytics, optimizing risk management and enhancing overall portfolio performance.
- Utilized MetaTrader5 for comprehensive market risk and portfolio profitability management, contributing to passing the FTMO \$100,000 challenge.

Social Media Automation | Los Angeles, CA

PRINCIPAL

- Spearheaded the development of a social media automation platform, employing Flask and HTML for the front-end design and MySQL for backend database integration, enabling content creators and maximizing their output.
- Engineered content acquisition frameworks using web scraping tools like Selenium and Homebrew, streamlining the collection of vast video content across multiple platforms for enhanced content strategy execution.
- Integrated innovative video editing capabilities with MoviePy and PyAV, facilitating complex video manipulations like splitting, compilation, and audio-to-text transcription for dynamic content creation.
- Created a custom watermark detection image processing model using ResNet, safeguarding intellectual property by preventing unauthorized content distribution.
- Created a scheduling system to allow creator to automate their posting which used API connections to multiple social media outlets, complemented by robust proxy management with Proxy Broker for reliable automation.