AMRAM SHALOM BOUSKILA

Machine Learning Engineer & Data Architect

(786) 702-7445
Amrambouskila@gmail.com
linkedin.com/in/amrambouskila
github.com/amrambouskila
Miami, FL

SUMMARY

Expert in designing and integrating machine learning algorithms to improve predictive accuracy and system efficiency. Proficient in database architecture & development, API development & system integration, data visualization & analytics, and programming & testing.

ACHIEVEMENTS

I am proud of spearheading the development of a sophisticated data visualization application. This project allowed me to leverage my skills in data analytics and software engineering to create a tool that significantly improved data interpretation and decision-making for engineers and analysts. By customizing Grafana Labs, we achieved a 35% improvement in operational efficiency. This initiative not only enriched our data analytics capabilities but also demonstrated my ability to lead a project that directly contributed to the company's strategic goals.

EXPERIENCE

Principal Machine Learning Engineer & Data Architect

Mitsubishi Power Aero

09/2023 - 01/2024 Glastonbury, CT

- Oversaw advanced machine learning model integration, achieving a 30% boost in predictive accuracy and system efficiency through innovative database and API development.
- Architected and deployed a comprehensive Victoria Metrics database, enhancing data ingestion and retrieval processes by 40%, while incorporating Prometheus and PromQL for real-time monitoring and analytics.
- Developed a robust object-oriented API, streamlining data access for the onsite engineers and analysts, which improved system efficiency by 25%.
- Upgraded data visualization capabilities by customizing Grafana Labs, leading to a 35% improvement in data interpretation and decision-making for onsite engineers and analysts.
- Engineered a specialized object-oriented program for the efficient handling of UBIN (Unigraph Binary) files, optimizing data processing and reducing storage overhead by 60%.
- Facilitated seamless data interchange between pandas dataframes and .ubin files, realizing a 50% improvement in processing speed and storage efficacy.
- Constructed a comprehensive testing suite using Python's unittest library, increasing the stability and reliability of the UBIN program by over 90%.

SKILLS

Agile, Ansible, API, AWS, BitBucket, CI/CD, Cloud Architecture, Confluence, CSS, C++, Data Analysis, Data Engineering, Data Quality, Data Science, Data Structures & Algorithms, Data Visualization, Data Manipulation, Database Architecture, Deep Learning, ETL, Excel, Express.js, Github, Grafana, Groovy, HTML, Java, Javascript, Jenkins, JIRA, JQuery, JSX, keras, Machine Learning, Market Analysis, Mathematics, MatplotLib, Microsoft SQL Server, Multiprocessing, MySQL, Node.js, PostgreSQL, Prometheus, PromQL, PowerBI, Powerpoint, Python, R, React.js, Redux, Statistics, Tableau, Typescript

LANGUAGES

English
Native

Hebrew
Native

Spanish
Advanced

Russian
Intermediate

EXPERIENCE

Lead Data Quality Engineer

Bank of America

12/2022 - 10/2023 New York City, NY

- Collaborated in an agile environment with cross-functional teams, including data scientists and quantitative analysts, to architect and refine data-driven systems, improving data science product performance and workflow efficiency by 35%.
- Reinforced bug resolution processes, leveraging analytics to reduce software downtime by 30% and increase customer satisfaction by 20%, directly impacting data product reliability.
- Led compliance and testing for FINRA, FIX, and CAT Tech Specs, employing data quality frameworks, which bolstered integrity and accuracy in financial data reporting and analytics by 70%.
- Streamlined data quality issue communication and managed comprehensive documentation, resulting in a 25% increase in issue resolution speed and a 30% increase in cross-team collaboration.
- Engineered and maintained Java and Groovy-based object-oriented programs for performance testing and quality reporting, utilizing Oracle SQL to ensure 99% data accuracy and system reliability.
- Orchestrated project and issue tracking, build management, and CI/CD processes using Jira, Jenkins, and Ansible, improving deployment efficiency by 35%.
- Optimized development operations by utilizing JQL, Jenkins, TestNG, Ansible, Confluence, and Bitbucket, resulting in a 40% reduction in deployment times and a 50% decrease in build-related errors.

Lead Data Science Engineer & Cloud Solutions Architect

Mitsubishi Power Aero

03/2022 - 12/2022 Glastonbury, CT

- Optimized AWS architecture, saving 20% in cloud resources and enhancing pipeline scalability by 50%, improving agility and reliability.
- Applied descriptive, prescriptive, and predictive modeling to facilitate turbine engine modifications, resulting in a 25% boost in operational performance and efficiency.
- Engineered a sophisticated application for sensor data analysis, integrating SARIMA and GARCH time series forecasting with thermodynamic analytics, which enhanced data-driven decision-making by 30% using technologies like PostgreSQL, Python, and an array of Python libraries (i.e. multiprocessing, NumPy, pandas, polars, matplotlib, seaborn, plotly, sklearn, statsmodels, TensorFlow, keras, PyTorch, and sqlalchemy).
- Delivered and presented accurate and up-to-date reporting and analytics, fulfilling 100% of ad-hoc requests within tight deadlines, which strengthened the Performance Engineering team's strategic decision-making process.

Lead Research Analyst

FIU Biochemistry Department

05/2018 - 05/2022 Miami, FL

- Pioneered research on metal toxicity thresholds, leading to the publication of 2 peer-reviewed articles.
- Employed advanced statistical analysis and predictive modeling to establish new safety benchmarks, directly impacting regulatory standards and industry practices.
- Utilized advanced analytical techniques such as spectrophotometry, NMR, HPLC, and GC-MS, to analyze organic and inorganic compounds with a 95% accuracy.
- Applied machine learning algorithms using R to create dose-response curves, elucidating the relationship between metal exposure and marine mortality rates, increasing predictive accuracy by 20%.
- Automated interactive dashboards using Python, SQL, PowerBI, and Tableau, leading to a 50% reduction in decision-making time.

EDUCATION

Bachelor of Science in Biochemistry, Minor in Mathematics

Florida International University

Bachelor of Science in Natural and Applied Sciences, Minor in Computer Science

Florida International University

EXPERIENCE

E-Commerce Operations Manager & Data Analyst

Lifestyle Discounts

06/2012 - 05/2018 Miami, FL

- Successfully negotiated with wholesalers, boosting e-commerce sales by 40% through data-driven market analysis and reselling branded electronics, tools, and accessories on Amazon FBA and eBay.
- Monitored and analyzed sales and return transactions using Python, SQL, and Excel, leading to a 25% advancement in inventory turnover rate and a 15% reduction in returns.
- Provided expert consultations to online electronic sellers, increasing their sales by 30% and customer satisfaction by 20% through optimized freight handling, return management, and SEO strategies backed by data insights.
- Implemented web scraping and data automation processes, enhancing the quality of sales analytics and reporting by 35% and enabling more informed decision-making through data visualization in QuickBooks and PowerBI.

PROJECTS

CaseStudy

01/2024 - Present Miami, FL

- Spearheading the design and development of a cutting-edge AI-driven companion software to provide a platform for monitoring, analyzing, and simulating individual-specific responses to treatments and remedies based on lifestyle factors.
- Engineering predictive models that accurately forecast future behaviors and health trends, achieving an 80% accuracy rate in predictions.
- Employing robust data analytics and data visualization techniques to extract actionable insights and provide users with intuitive feedback and progress tracking.
- Optimizing system architecture for seamless data collection, ensuring real-time analysis and feedback.
- Conducting rigorous testing to validate the accuracy and reliability of predictive analytics and machine learning models.

Where Will It Go?

05/2018 - Present Miami, FL

- Directing end-to-end development of AI-powered trading bots trained to trade stocks and cryptocurrency, achieving a 55% increase in trading efficiency.
- Leading a cross-functional team, doubling collaboration and productivity through agile methodologies and tools like Outlook, Teams, Jira, Bitbucket, and Confluence.
- Mastering real-time data processing with Python, PostgreSQL, and C++, aggregating over 10 million data points daily from the NYSE.
- Engineering advanced data visualization dashboards using HTML, CSS, JavaScript, TypeScript, jQuery, JSX, React.js, Node.js, Express.js, and Redux, improving decision-making with real-time insights into trading bot performance.
- Optimizing trading algorithms using technical and quantitative indicators, such as LDA, QDA, and PPI analysis, leading to an 20% growth in profitability and a reduction in risk exposure.