

Jimkelly Percine

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EDUCATION

Brandeis International Business School

Master of Science in Business Analytics (STEM-Designated)

Relevant Coursework: Data Visualization, Database Management Systems, Advanced Data Analytics, Machine Learning

Waltham, MA

08/2024 - 05/2025

Brandeis University

Bachelor of Science in Computer Science and Business

Relevant Coursework: Data Structures & Algorithms, OS, Discrete Math, Statistics, NLP, Cyber Security, HCI

Waltham, MA

08/2020 - 05/2024

EXPERIENCE

Valley Bank

Data Scientist

Morristown, NJ

06/2025 - Present

- Engineered and deployed predictive models using advanced machine learning algorithms (e.g., random forests, gradient boosting, neural networks) to enhance customer experience and optimize business operations.
- Collaborated with teams to integrate data-driven solutions, utilizing tools such as Python, R, SQL to improve productivity and operational efficiency.
- Conducted in-depth data analysis leveraging statistical methods and data visualization techniques (regression analysis, clustering, PCA, Tableau) to identify trends and drive actionable insights, resulting in measurable improvements in performance and customer satisfaction.

Brandeis University

Junior DevOps Engineer

Waltham, MA

05/2022 - 05/2025

- Deployed and configured 20+ Ubuntu/Red Hat servers across AWS EC2, on-premises, and hypervisors, ensuring optimal reliability.
- Crafted custom Python and Bash scripts to implement data-oriented solutions for computer science systems and servers.
- Resolved 200+ tickets submitted by the faculty and students leading to improved efficiency in internal and external projects.

Apple

Sales Specialist

Newton, MA

07/2022 - 10/2024

- Boosted customer satisfaction by 25% and sales conversions by 15% through tailored technical consultations.
- Exceeded sales targets and increased business connections by 10% through deep product knowledge and customer engagement.

Publicis Sapient

Technical Product Manager Intern

New York, NY

06/2023 - 08/2023

- Led the development of a generative AI marketing solution for 2,200 locations using Agile practices.
- Utilized Jira, Confluence, and Figma to streamline workflows, improve communication, enhancing collaboration between Engineering and Design teams.

PROJECTS

Database Management Systems

IMDB Movie Database

Waltham, MA

01/2025 - 02/2025

- Designed and implemented a MySQL relational schema with indexing, foreign keys, and normalization for optimized queries.
- Implemented data integrity constraints (PKs, FKs, ON DELETE CASCADE, CHECK) to ensure data consistency and security.
- Built a Flask web app for movie search and user interactions, executing SQL queries for features like "liking" movies.

Waltham Chamber of Commerce Event Visualization

Event Visualization

Waltham, MA

11/2024 - 01/2025

- Built a data-driven analytics system for the Waltham Chamber of Commerce using Python and Pandas to optimize event insights and decision-making.
- Designed custom visualizations with Matplotlib and Seaborn to uncover trends, track engagement, and improve event strategies.
- Cleaned, processed, and integrated multi-source event data using Python to ensure accuracy and consistency.

Advanced Data Analytics

Diabetes Prediction Dashboard

Waltham, MA

11/2024 - 12/2024

- Performed exploratory data analysis on healthcare datasets to identify links between clinical metrics and diabetes outcomes.
- Built and optimized a Random Forest model achieving 98.19% accuracy to predict diabetes diagnosis based on clinical data.
- Applied PCA and K-Means clustering to segment patients into risk groups, explaining 52% of variance with reduced dimensions.

TECHNICAL AND BUSINESS SKILLS

Programming Languages: Python (Pandas, NumPy, scikit-learn, TensorFlow, PyTorch), R, Java, SQL, Bash

Data Analysis: Jupyter, Tableau, MySQL, MongoDB, Exploratory Data Analysis, Statistical Modeling

Machine Learning: Supervised and Unsupervised Learning, Neural Networks, Decision Trees, K-NN, Random Forests

Product & Project Management: Agile Methodology, Jira, Roadmap Planning, Cross-functional Collaboration, A/B Testing, Market analysis

OTHER

Certificates: Google Data Analysis with R Programming