

# Ian Dsilva

(857)-425-9320 | [dsilvaian.info@gmail.com](mailto:dsilvaian.info@gmail.com) | [linkedin.com/in/ian-dsilva/](https://www.linkedin.com/in/ian-dsilva/) | [github.com/dsilvaian](https://github.com/dsilvaian)

## EDUCATION

**Boston University, MA, USA** | *MSc, Computer Information Systems* | GPA: 3.8/4.0 *September 2022 - January 2024*  
*Big Data & ETL, Data Mining, Machine Learning, Analytics & Visualization, Data Science, Database Management*

**University of Mumbai, India** | *BE, Computer Engineering* | GPA: 8.17/10.0 *August 2017 - June 2021*  
*Probability & Statistics, AI, Database, NLP, Data Structures & Algorithm, Cloud Computing, Software Engineering*

## PROFESSIONAL EXPERIENCE

**Data Analyst Volunteer | CrowdDoing** *March 2024 – Present*

- Increased stakeholder impact by 20% through improved investment matching, using Python and Scikit-learn to develop predictive models that identified projects with high impact on social and environmental factors, for companies to invest.
- Reduced impact assessment time by 30% through the implementation of AWS Step Functions and AWS Glue to create ETL pipelines that tracked and analyzed social and environmental metrics.
- Improved investor decision-making with interactive PowerBI dashboards that visualized impact metrics alongside financial performance.
- Catalyzed a 35% increase in impact-focused capital allocation by presenting SQL-based analytics.

**Event Ambassador and Office Assistant | Boston University** *August 2023 – January 2024*

- Achieved a 15% reduction in event planning costs through strategic vendor negotiations and optimized resource allocation, resulting in an estimated \$50,000 annual savings.
- Implemented and managed a robust event database system, tracking over 10,000 attendee profiles, 500+ vendors, and 100+ event logistics details, and leveraged this database to pioneer a QR code-based check-in system.

**Front-End Web Developer | Vervali Systems** *August 2021 – June 2022*

- Migrated and refactored multiple legacy PHP codebases to Angular and React, boosting website performance by 25%, to help products become customer-centric.
- Collaborated requirements gathering between business and technical teams to develop key features, and present technical solutions to executive stakeholders.
- Maintained the project wiki to track migration milestones and progress, along with detailed wiki entries to capture lessons learned and troubleshooting steps during the migration of legacy PHP codebases.
- Conducted daily cadence meetings and calls with technical teams to address roadblocks and deliver timely solutions.

**Data Science Intern | Marsh Precision Engineering** *November 2020 – June 2021*

- Identified and integrated over 10 diverse data sources, including sales records and market trends, to build a predictive model and drive targeted marketing campaigns.
- Developed an ETL data pipeline to automate the ingestion and cleansing of the integrated data sources to ensure consistent and accurate inputs for the predictive model.

**Data Analyst Intern | Murzello Bros and Company** *May 2020 – August 2020*

- Researched and analyzed sales data to drive targeted marketing campaigns.
- Leveraged machine learning algorithms utilizing exploratory data analysis (EDA) techniques to boost customer engagement by 30% and increase sales conversion by 25%.

## PROJECTS

**Text Style Transfer | Python, PyTorch** *Ongoing*

- Implemented neural network models for text style transfer, to enable conversion between formal and casual writing styles using architectures seq2seq and transformer models to identify the most optimal configurations.

**Covid Analysis | Data Engineering, AWS Cloud (Athena, Redshift, Glue, S3), Python, Tableau** *January 2024 – May 2024*

- Implemented ETL AWS Glue pipeline, Tableau for data integration and advanced data processing.
- Designed a star schema using Redshift, Athena and Python, to enhance analytics efficiency by 50%.

## PUBLICATIONS

*"A CNN-RNN based approach for Simultaneous Detection, Identification and Classification of Intracranial Hemorrhage"*

**Doi: [10.1109/ICCICT50803.2021.9510112](https://doi.org/10.1109/ICCICT50803.2021.9510112).**

## CERTIFICATIONS

**AWS Certified Solutions Architect – Associate** *Ongoing*

**Google Data Analytics Certificate** | *License ID: OVRBOUGG004* *September 2024*

## TECHNICAL SKILLS

**Programming:** SQL, R Programming, JavaScript, C++, HTML, CSS.

**Data Analysis & Visualization:** Python (NumPy, Pandas, SciPy, Scikit-learn, Seaborn, PyTorch, Matplotlib), Tableau, Power BI.

**Databases:** MySQL, Oracle Database, SQLite, MongoDB, Microsoft SQL.

**Other Technologies & Cloud Infrastructure:** AWS (Glue, Redshift, DynamoDB, EC2, EMR, S3, Athena, kinesis, QuickSight), Google Cloud Platform, Spark, Hadoop, Docker, Git, Agile, Scrum, Jira.