

Ian Dsilva

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EDUCATION

Boston University, MA, USA | *MSc, Computer Information Systems* | GPA: 3.78/4.0 | *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 Scientist | CrowdDoing | *March 2024 – March 2025*

- Engineered machine learning models using ensemble techniques to evaluate social impact investment along with fine tuning parameters, to improve predictive accuracy by 25%.
- Developed advanced classification pipeline using PCA and XGBoost to segment companies by environmental and social metrics, reducing manual assessment time by 40%.
- Created interactive Tableau dashboards to transform complex data, to enable faster strategic investment decisions by 30%.

Event Ambassador and Office Assistant | Boston University | *September 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*

- Developed web components to streamline development workflow to reduce deployment time by 50% and minimize code redundancy.
- Implemented advanced SEO optimization strategies, improving organic search rankings by 40% and enhancing website visibility.
- 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.
- 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.
- Constructed ETL data pipeline to automate ingestion and cleansing of integrated sources, ensuring consistent predictive model inputs.

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

Generating images using Deep Convolution GAN | TensorFlow, Python, Deep Learning | *March 2025*

- Implemented distributed deep convolution GAN model, to enhance image resolution using Anime dataset.
- Optimized TensorFlow across multiple GPU's and achieved 0.8 SSIM score and 50% faster training speed.

Covid Analysis | Data Engineering, AWS Cloud (Athena, Redshift, Glue, S3), Python, Tableau | *January 2025*

- 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%.

Parkinson's Disease Progression Prediction | Machine learning, Data Analytics, R | *December 2024*

- Conducted statistical analysis of 1M protein records from 2,615 CSF samples to predict UPDRS scores for Parkinson's severity, and forecasted UPDRS scores with an accuracy of 85% in R.

PUBLICATIONS

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

Doi: 10.1109/ICCICT50803.2021.9510112.

CERTIFICATIONS

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.