JOEL JOSEPH THOMAS

SUMMARY:

Software Professional with 7 years of experience executing data-driven solutions to increase Ecommerce internal data processina efficiency & accuracy. Experienced in implementina various supervised & unsupervised Machine Learning & Deep Learning algorithms. Coordinated with business & engineering teams across all development life cycle phases. Strong work ethics in team or individual setting to drive product success & product efficiency. Project leader with a track record of completing critical milestones & delivering products on time. Strong troubleshooting & problem-solving skills with an analytical mindset. Fast learner with strong time management & multi-tasking skills.

WORK EXPERIENCE:

SUPPORT ENGINEER III (Amazon)

February 2022 - June 2023 (Toronto, Ontario, Canada)

- Worked on an agile project to translate & migrate 6-7 scripts from a Shell-based Non-Native AWS to **Python**-based Native **AWS** environment. Besides, took **ownership** to develop few scripts internally as part of the new process addition for reporting purpose i.e., user & admin Photon Tool usage metrics, Global Ticket Age Notifier, Software OTA adoption rate, etc.,
- Implemented throttling & rate-limiting mechanisms to handle the input traffic while processing various device log files (Timber) for an internal tool as part of the Correction-Of-Error measure.
- Participated in a pilot Machine Learning project, a tool to classify different types of device errors based on the logs generated by performing data extraction & cleaning such as removing stopwords, lemmatization, de-contraction, etc., feature engineering using Natural Language Processing techniques such as TF-IDF & Word2Vec word embeddings & experimenting various algorithms such as Support Vector Machines, Bagging & Boosting, Naïve Bayes & Artificial Neural Networks. Thus, assisting the ticket handling device associates in identifying the actual issue by saving time & removing doubt while debugging logs manually.
- Created dashboards using data tables, graphs & KPIs for monitoring various device metrics via Amazon QuickSight tool & learn about the top trending issues & engage with various device DEV & QAE teams to address & fix the issues swiftly. Thus, providing Amazon customers with best product & user support experience. Besides, helped my team solely in the SQL database & table migration process as part of Amazon-wide data security policy update.
- Partnered with an external development team to create a Java-based script to synchronize ebook user rights between original data source & external digital rights tool to eliminate uncertainty while debugging read right issues on e-books reported by an Amazon customer.
- Enhanced the Photon tool (used by Amazon CS team) by implementing changes on both the user interface (ReactJS) & back-end (Java). Thereby, integrating a new feature that fetches the OS version & firmware details from external team APIs while troubleshooting an Amazon product for the customer reported issue. As a result, aiding the CS team in simplifying their work & saving time by working on a single standalone tool while debugging & troubleshooting device related issues instead of relying on multiple tools & APIs.
- Assisted my team by working on various customer tickets related to HW & SW related issues across all Amazon devices thereby providing accurate & efficient troubleshooting solutions.
- Collaborated with Product Managers, Technical PMs, DEV & QAE teams for new product launches w.r.t various Amazon devices & performing QA beta testing related to device logs.

E-COMMERCE DATA ANALYST (Nature's Way of Canada) July 2021 - December 2021 (Halifax, Nova Scotia, Canada)

- Performed exploratory data analysis on Nature's Way products & its competitors to adjust optimal pricing strategies based on emerging online trends & ensure effectiveness on Return-On-Ad-Spent.
- Worked on a data mining project by creating a Python script to web crawl & scrape Amazon product pages & fetch relevant product information w.r.t NW competitors via **BeautifulSoup**, LXML (ElementTree) & Regex libraries for rising product selection & promotional tactics.
- Co-ordinated with product & marketing teams to implement an unsupervised ML model for mapping new Nature's Way products into various product groups, categories & sub-categories via clustering such as DBSCAN, K-Means, Hierarchal & also predict the missing information on products using K-Nearest Neighbors Imputer, Random Forest & Logistic Regression algorithms.
- Designed a specimen model to understand geographical similarities w.r.t product sales via clustering techniques such as K-Medoid, MeanShift, OPTICS & mini-batch K-Means.
- Conducted Hypothesis A/B testing on NW products & ADHOC reporting for E-tail POS sales.

ABOUT:

Address:

24 Barnwell Drive, Scarborough, Toronto, ON Canada M1V1Y8

Mobile:

+1 902-499-2653

Email:

joeljoseph26@yahoo.com

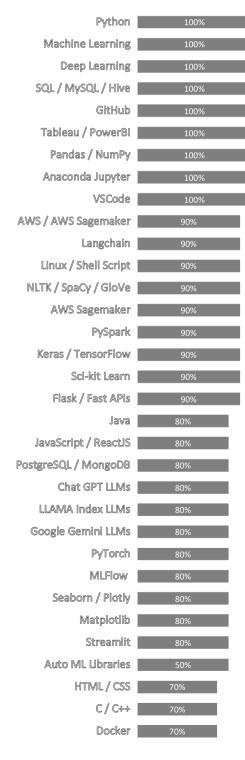
Social & Project profiles:







SKILLS:



- Involved in creating few MS PowerPoint presentations for bi-weekly leadership meetings to discuss the performance & cost effectiveness of Nature's Way products w.r.t sales & revenue, product trails, etc.,
- Developed various spreadsheets, charts & dashboards using MS Excel formulas, VBA, Power
 Query editor & PowerBI for publishing reports such as product revenue sales, Online Ads spent,
 & product impressions on a weekly, monthly & yearly basis to stakeholders as part of the cohort
 analysis for Nature's Way products.

DATABASE DESIGNER INTERN (Open Ocean Robotics)

June 2020 - September 2020 (Halifax, Nova Scotia, Canada)

- Created a data model to store information related to solar powered uncrewed surface vehicles
 & its observations alongside creating stored procedures, views, functions, etc.,
- Partnered in an end-end **NoSQL** database implementation using **TypeScript** along with **API** integrations.
- Conducted detailed analysis of various Identity & Access Management tools such as Okta, OneLogin, etc., based on the type of authentication methods & Single Sign-On options supported & also configuring the user CRUD permissions to access tables in the data model.

SUPPORT ENGINEER I (Amazon)

September 2017 - July 2019 (Chennai, Tamil Nadu, India)

- Performed ticket handling as part of on-call support to create new services based on internal & external requests from different Ops teams & resolve other system-related issues & failures.
- Performed **data collection**, **preprocessing**, **analysis** & **visualization** on various kinds of data w.r.t E-Books, Videos, Periodicals & Music.
- Implemented rudimentary **supervised Machine Learning** algorithm such as **Random Forest** & **Decision Trees** for classifying product mappings which defines the availability of an Amazon product in its competitor's website across various GLs like clothing, games, furniture, etc. The project generated 2x more product mappings for price monitoring & also reduced the load on the crawler and scraper configurations by eliminating futile ASIN listings
- Served in a **Crawler migration** project i.e., migrating crawler configurations from **selenium**-based to **JavaScript**-based ones to handle convoluted JS enabled pages.
- Also, participated in pilot projects like ASIN Impressions (alternate mapping strategy to Glance Views) & Canonical URLs (removing duplicate product URLs w.r.t product mapping).
- Deep-dived the **root cause** of a plethora of issues such as **WPI metrics** drop, **coverage metrics** drop, **scraping** & **crawling** issues, & **ETL query** job **failures**.
- Partnered in a **query** migration project **JIYU**, by translating 700 complex **SQL** to **Hive** queries that is used for internal & external reporting purpose related to **Pricing** & **Selection**.

AUTOMATION SPECIALIST (AMAZON)

Chennai, Tamil Nadu, India (April 2017 – September 2017)

- Handled complex XML configurations in our internal tools for crawling & scraping purposes
- Worked as a SME on projects & led a team of 12 automation analyst for Color (rule-based mapping of a product color into a relevant color family) & User Action (capture JS based product pages via selenium tool) Automation projects saving 25 headcounts/week with 99.5% accuracy.
- Generated various **reports, charts** & **dashboards** in **Excel** & **Tableau**. Later, shared it with our relevant **stakeholders** on a daily, weekly, & monthly basis.
- Involved in writing complex **SQL** queries for various **ETL** operations

AUTOMATION ANALYST (Amazon)

Chennai, Tamil Nadu, India (April 2016 – March 2017)

- Demonstrated excellent business acumen & created several **XML** configurations in our internal tools for **crawling** & **scraping** purposes. Also, generated, analyzed & interpreted business & system relevant **metrics**.
- Performed ticket handling for various internal automation requests & failures

RETAIL ASSOCIATE (Amazon)

Chennai, Tamil Nadu, India (March 2015 - March 2016)

- Performed **price** & **selection monitoring** for Amazon products with its competitors using market & current trend research with the latest Amazon tools
- Process & project trainer for new & junior retail associates & conducted CAPA sessions
- Worked as a back-up subject matter expert, maintained coverage & productivity reports

CONTENT ASSOCIATE (Amazon)

Chennai, Tamil Nadu, India (April 2017 – September 2017)

- Worked in **auditing** Kindle e-books & validating the **quality** of the feature called Kindle Language Layer in Amazon Kindle devices to help non-native English speakers
- Also, worked in another feature X-Ray related to Amazon Kindle device to provide best customer reading experience

EDUCATION HISTORY:

Master of E-Commerce (Data Science – AI/ML)

May 2021 | GPA: 3.5/4

Dalhousie University, Halifax, Canada.

Bachelor of Electrical & Electronics Engineering

April 2014 | GPA: 3/4

Anna University, Chennai, India.

PROJECTS:

MACHINE LEARNING:

- Toxicity Detection using NLP (Kaggle)
- Approval of funds via **Sentiment Analysis** (Research Paper)
- Meeting Evaluation via Audio features & text (self-project via sample audio files on YouTube)
- Stock Prediction using LSTM
- **Text Summarization** using **attention** models
- Language translation using attention models
- LLMs via Google Gemini, Chat GPT for PDF querying & Q&A
- Object detection via HuggingFace models
- Pneumonia Image classification with the help of VGG-19, AlexNet, Inception, etc. via convolution & pooling techniques

VISUALIZATION:

- Created Dashboards & charts for various datasets
- Performed data blending & clustering
- Implemented **relationships** & **joins** for **dual-axis** charts, **dashboards** & **stories**

CERTIFICATIONS & LICENSES:

- **Udemy** Data Science A-Z™: Real-Life Data Science Exercises Included
- **Udemy** Power BI A-Z: Hands-On Power BI Training for Data Science!
- Udemy Tableau 2020 A-Z: Hands-On Tableau Training for Data Science
- **Udemy** Modern Natural Language Processing in Python
- **Udemy** Machine Learning A-Z™: Hands-On Python & R In Data Science
- **Google** Natural Language Processing using Google Cloud

REWARDS:

Employee of the month:

- March 2018 (Support Engineer)
- May 2016 (Automation Analyst)
- January & February 2015 (Associate)

VOLUNTEERSHIP,

LEADERSHIPS & OTHERS:

- DalSafe Ambassador & Committee member of CSGS, Dalhousie University
- Mathematics & Science **teacher** at Bhumi, India (NGO)
- Student Union Leader, Public relations officer, Student President in National Level Technical Symposium in Bachelors