SRIVATSAN MADAPUZI SRINIVASAN

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EDUCATION

SINGAPORE MANAGEMENT UNIVERSITY

Aug 2022 - Aug 2023

Master of IT in Business (Specialization: Data/Business Analytics Track)

Courses → Applied ML, Customer Analytics, Social Analytics, Data Science for Business, Visual Analytics, Statistics

ANNA UNIVERSITY – India Aug 2015 - May 2019

Bachelor of Engineering in Computer Science Engineering - First Class Honors

SKILLS

- Programming Skills: Python, SQL, R, SAS, Appian, C, C++, JAVA, HTML, PHP, JS
- Data Science Skills: Pandas, Numpy, Scipy, Matplotlib, Seaborn, NetworkX, MS Excel, Statistics
- Machine Learning Skills: Scikit-learn, NLTK, NLP, Spacy
- Deep Learning Skills: Tensorflow, PyTorch, Transformers
- Data Management Skills: Apache Hadoop, Spark, HIVE, AWS, Databricks
- Data Visualization: PowerBI, Tableau, R Shiny
- Version Controls: Anaconda, GitHub, Jupyter, VS Code

PROFESSIONAL EXPERIENCE

HOOVER MELAMINE - Singapore

Apr 2023 - Jun 2023

Customer Analyst (SMU-X Student)

- Utilized RFM analysis on transaction data to identify various customer segments.
- Computed the CLV of different customer segments to determine the most valuable and loyal customers.
- Improved customer retention rates by implementing Personalized Marketing, Rebate Programs, and Bundle Promotion strategies.
- Developed marketing plans to attract customers, which might potentially increase the sales revenue by 5% (approx.).

Applied Skillsets: Python, Pandas, Excel, SAS Enterprise Miner, Tableau

Accolades: The organization appreciated the simplicity and implemented the suggested rebate program and bundle promotion strategy.

WNS VURAM – India May 2019 – Jun 2022

Senior Technical Consultant

Infrastructure Lending - Fintech Project

- ullet 3+ years of experience in Appian, with a track record of 100+ successful deployments to production.
- Redesigned the Database Table Schema (Normalization), resulting in a 10% improvement in the efficiency of data retrieval (Indexing).
- Implemented a dashboard for stakeholders to view infrastructure and profit details in PowerBI and Appian.
- Integrated Bloomberg API to present deal risks to Infrastructure Lending organizations to make informed decisions.
- Implemented a time-series forecasting method (ARIMA) that assesses credit risk quarterly based on past repayments, reducing risk by 5-10%.
- Automated ETL process from the legacy system to the new application through rule-based processing.
- Engineered a security management system to manage ACL, resulting in a 30% increase in client productivity.

Applied Skillsets: Appian SAIL, Process Modeler, Connected System, Integration, MySQL, Python, Pandas, Matplotlib

Breach Management System

- Collaborated with multiple business departments to incorporate Breach Management practices across the organization.
- Analyzed patterns of past breaches to identify common vulnerabilities and automated a system to act accordingly.
- Constructed PyTorch CNN for breach-type estimation using statistical features, achieving 85% accuracy. Utilized TorchServe for production deployment.
- Created dashboards to visualize the real-time security state of the system using PowerBI.

Applied Skillsets: Appian SAIL, Process Modeler, MySQL, Python, Pandas, Scikit-learn

Accolades: Lauded for carrying out multiple production deployments successfully.

DEXTROWARE DEVICES PVT LTD - Assistive Tech for Differently-abled - India

Jul 2020 - Dec 2020

Business/Product Analyst (Part-Time)

- Identified the most benefitable end-user for the product using Python data analysis and segmentation methods.
- Conducted market analysis and identified target market segments, leading to improved customer reach by up to 15%.
- Presented the derived insights to investors, resulting in an investment of 20% of the company's total market value.

Applied Skillsets: Python, Pandas, Matplotlib, Seaborn, Numpy

Accolades: Best Startup in Assistive Technology - Massachusetts Institute of Tech, Dr Kyle Kaene.

PROJECTS

Social Analytics: Movie Script Analysis (GitHub)

- Improved sentiment analysis accuracy by 15% using BERT model compared to the Lexicon model in Python.
- Performed Agglomerative Community Detection Algorithm to identify character relationships.
- Identified key characters and their relationships using centrality measures, resulting in a 50% (approx.) overall story coherence.
- Uncovered important social dynamics within the movie using ENA techniques.

Product Analytics and Performance Optimization (GitHub)

- Leveraged Python to analyze product sales data and created dashboards in Tableau to extract key insights for product improvement.
- Employed VADER sentiment analysis on the review dataset to evaluate customer sentiment.
- Compared results with sales performance, providing valuable insights to optimize product positioning and marketing strategies.

Adventure Work's Sales Data: An Interactive PowerBI Dashboard (GitHub)

- Automated ETL for the sales data using Power Ouery to create a clean and structured dataset.
- Utilized complex DAX to create calculated columns and measures for KPIs for the business.
- Designed an intuitive and interactive user interface in PowerBI, allowing stakeholders to explore granular details and gain insights.

Loan Default Prediction in Nigeria (GitHub)

- Developed a machine learning model using loan data to predict loan defaults for a Nigerian financial institution.
- Implemented & compared ML algorithms such as XGBoost, Bootstrap Forest, and Boosted Tree.
- Achieved 40% higher accuracy with XGBoost compared to other algorithms.
- Enabled the institution to make more informed lending decisions and reduce financial risks.

Data Science Solutions for Business: Customer Transaction Data (GitHub)

- Performed customer segmentation using RFM, Demographic Segmentation, and purchase behavior.
- K-means Clustering for Product Segmentation. Obtained cluster insights using Quadrant Analytics.
- Utilized Association Mining algorithms (MBA & Apriori) to identify frequent buying itemsets in transactions.
- Designed a Recommender System (Content-Based Filtering) based on customer demography data to improve sales.

Data Sensing from Space (Sentinal-2 L2A Dataset) (GitHub)

- Performed data cleaning and PCA for dimensionality reduction on various spectrum wavelength satellite data.
- Normalized and standardized highly skewed data issues before clustering using K-means and Gaussian Mixture.
- Recognized and visually presented the changes in Singapore in a few years from the clustered results.

INTERNSHIP

WNS VURAM - India

Jan 2019 - Apr 2019

Appian Developer Intern

Case Management System

- Developed a real-time complaint registration application for use in banks using Appian, ensuring efficient complaint handling.
- Incorporated the complete business flow, including Diligence and Due Diligence processes, to streamline complaint approvals.
- Designed a database table schema tailored to real-time requirements, ensuring data integrity and responsiveness.
- Created dynamic visualized dashboards to present quarterly complaint data, facilitating data-driven decision-making.
- Implemented dynamic SAIL object configurations for multiple forms, significantly improving operational efficiency.

Applied Skillsets: Appian SAIL, Process Modeler, Records, Reports, CDTs, MySQL

Accolades: Recognized and awarded as the best Proof of Concept (POC) application within the batch, reflecting outstanding project performance.

INDRA GANDHI CENTRE FOR ATOMIC RESEARCH - India

Nov 2017 - Dec 2017

Software Developer Intern

User Management System

- Developed User Management Web Application for the IGCAR employee directory.
- Optimized response time, enhanced offline access, and improved UI/UX.

Applied Skillsets: HTML, PHP, CSS, LDAP, CentOS 7