

HIGHLIGHTS

- Experience **building and deploying microservices** as part of Machine Learning/Data Science applications.
- Experience with building **continuous integration and delivery pipelines** for Machine Learning applications.
- Experience orchestrating the **deployment and management** of predictive models in a cloud environment.
- Experience with Deep Learning Framework – **TensorFlow & PyTorch**. Proficient in software design patterns.

WORK EXPERIENCE (1.5+ years)

- **Associate Quantitative Analyst** - DBRS Morningstar
Mumbai, October 2021 – Present
- **Operations Risk Analyst** - Sun Life Financial
Gurgaon, June 2019 – August 2019

SKILLS

- *Python, VBA, C++, Advanced Excel, SQL Server, APIs, Tableau, Power BI*
- *Statistical Analysis, Machine Learning, Data Modelling, Data Visualization, Predictive Modelling, ETL, Big Data Hadoop, AWS/GCP, Docker*
- *Team Leadership, Team Management, Problem Solving, Communication*

EDUCATION

- **PGP in Data Science and Business Analytics**
- Great Lakes Institute of Management
February 2021 – January 2022
- **Bachelor's in Business Administration**
- IP University - JIMS, Vasant Kunj
August 2017 – September 2020
- **Higher Secondary Certificate (H.S.C)**
- Tagore International School, New Delhi
March 2018 – March 2020

PROJECTS

Residential Transition Loans (RTL) Inclusion in Insight Model

- **Led a team** to analyze, **predict and model risks** associated with RTL asset class, **onboarded 10+ biggest Issuers** of RMBS.
- Developed a **comprehensive risk framework** providing valuable insights to investors, driving **revenue growth by \$2 billion**.
(Concepts & tools: **itertools, numpy, pandas, DSA**)

Timeseries forecasting for Transaction Procurement

- Developed a neural network-based approach to **enhance the accuracy** of existing timeseries VAR models, resulting in **improved forecasting capabilities**.
- Automated the entire data download and processing stage and conducted trend analysis reducing manual effort from **6 hours to few seconds**, providing valuable insights for informed procurement (Concepts & tools: **numpy, pandas, statsmodel, SMOTE**)

US Deal Universe: Tableau Dashboard

- Conducted extensive analysis on **8000+ US region transactions** and developed a **real-time Tableau Dashboard**, enabling data-driven decision making.
- Achieved **30% improvement in analytical enhancement**, resulting in more informed research driving a **25% increase in revenue** from securitizations. (Concepts & tools: **Tableau, AWS Redshift, Python**)

Non-Qualified Mortgages Quarterly Publication

- **Worked with senior leadership**, optimized data pipelines, and revamped a semi-annual publication to quarterly saving **1000 hours annually**.
- Generated statistical reports and visualizations, providing key insights for Non-Qualified Mortgages **spanning 100+ transactions**. (Concepts & tools: **AWS, numpy, pandas, matplotlib, seaborn**)

Closed End Seconds (CES) Analysis

- Executed a **comprehensive statistical analysis** comparing the behavior and characteristics of HELOC loans and Closed End Seconds data in the Insight model.
- Achieved a **15% improvement** in analytical accuracy and research insights, leading to a **20% increase** in successfully securitized transactions with the integration of HELOC loans. (Concepts & tools: **SQL, AWS, numpy, pandas, statistical techniques**)

Intex API Data Puller

- Developed a **robust Python**-based tool using **REST API and curated ETL** framework to seamlessly extract data for daily business tasks uninterrupted.
- Annual time savings of **800 hours** allowed leadership to focus on **resource management**, enhancing productivity and trust of stakeholders driving up **business activities by 10%**. (Concepts & tools: **xlwings, numpy, pandas, VBA, JSON API**)