

Shivam Agarwal

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SUMMARY

I am an experienced **AI & Technology** Professional, with **nine years of experience** in Data Science. Specializing in the design and implementation of end-to-end analytical solutions at **scale**, my focus is on leveraging analytics to solve business problem

EXPERIENCE

Data Scientist | UOB | Singapore | April 2022 - Present

- Designed and developed a **money mule** detection algorithm using **Python** and ML, achieving a **95%** precision rate in identifying fraudulent transactions, which resulted in significant reduction in the workload on the **AML** team.
- Developed a Python-based **reconciliation** system for six **Asia Pacific countries**, automating data comparison and discrepancy detection. This led to an **85%** processing time reduction and enhanced data accuracy.
- Led analysis of **qualitative** and **quantitative** data from employee performance reviews to identify skill gaps. This analysis helped in optimization of training programs, leading to a **20%** increase in employee satisfaction.
- Spearheaded the development of an advanced budget forecasting model using **Prophet, TensorFlow, XGBoost**, and stacking techniques which effectively reduced budget overspend by **15%**.
- Boosted analytical platform adoption by **30%** through the creation of intuitive content tailored for non-technical users and leading **10+ educational sessions** to improve platform utilization.

Data Scientist | DBS | Singapore | June 2021 - February 2022

- Engineered a **deep learning** and **Pyspark** based alert framework for anomaly detection, monitoring products and processes in real-time across Asia Pacific. This led to an **80%** faster identification of potential **failures**, and enhanced operational efficiency.
- Architected a control tower platform for **C-Suite** and **executive users**, enabling instant access to **real-time KPIs** and analytics. This innovation led to a **90%** decrease in time needed for data analysis and significantly optimizing decision-making.
- **Transitioned** data science models to production with **Jenkins**, **Git**, and **Bitbucket** for CI/CD, enabling quick detection of data drifts and model failures, thus maintaining model accuracy and reliability.

Business Intelligence Analyst | Cognizant Technology Solution | India | April 2019 - February 2021

- Enhanced customer loyalty and drove a **2% revenue uplift** by crafting and deploying a **churn prediction model** with Logistic Regression, achieving a **10%** improvement in retention rates and fueling business growth.
- Developed frameworks to automate the ETL including data cleaning and data manipulation for reporting process using **Alteryx** and **Tableau** yielded reduction in manual effort by 90% and annual saving of \$72k soft dollar.
- Performed root cause analyses on the big dataset using **SQL & Python** and **Statistics** library and provided recommendations resulted in 12 days fewer for delivering the final product.
- Optimized existing data analytics **Tableau** reports using advanced performance tuning methods and data structure optimization resulted in the reduction of loading time by 70%.

Senior Analyst | Larsen and Toubro | India | July 2013 - May 2018

- Leveraged **A/B testing** to guide senior leadership in selecting optimal solar modules for maximized efficiency and cost-effectiveness.
- Automated generation loss calculations using **advanced Excel & Macros**, saving **87%** in reporting time.
- Identified the potential lost revenue through **data-driven analysis**, enabling more informed decision-making and improved financial performance.
- Implemented Stream Processing, data modelling, data analysis and dashboard design for plant status, critical issue, and critical parameter using Tableau.

SKILLS

Tableau, Alteryx, Python, SQL, SQL Azure, MS SQL Server, Snowflake, Hadoop, Pytorch, FastAPI, Pandas, spaCy, NumPy, Scikit-learn, Keras, TensorFlow, Data Science, Machine Learning, Visualization, AWS Sagemaker, MLOps, Hive

EDUCATION

Master of Business Administration (M.B.A.) | Business Analytics | 3.68/4 | Great Lakes Institute of Management | India | 2019

• Relevant Coursework: Statistics for Data Science, Applied Machine Learning, Experiments and Causal Inference, Natural Language Processing with Deep Learning

Bachelor of Technology | Galgotia College of Engineering and Technology | India | 2013

CERTIFICATIONS

Generative AI with Large Language Models | Coursera | 2023

AWS Certified Cloud Practitioner | AWS | 2022

Data Analyst Associate | Datacamp | 2022

Tableau Desktop Specialist | Tableau | 2020

Alteryx Designer Advanced Certification | Alteryx | 2020