

EDUCATION

MBA	IIM-Ahmedabad	Aug 2008 - Jul 2010
B.Tech (Computer Science)	NIT, Suratkal	Aug 2003 - Jul 2007

WORK EXPERIENCE

covering Data Science Consulting + Business Analytics + Software Engineering

Technical Consultant (Data & Analytics Practice) - Wipro, UKSince Jun 2022

- **Forecasting Model for Carbon Neutrality:** Led a team of 7 analysts in developing a forecasting model using Python and Prophet for a major Oil & Gas producer in the UK. Data preparation of over 65 million records and modeling. The insights generated were critical for tracking the company's carbon neutrality & sustainability goals
- **GenAI Chatbot for Customer Services:** Led a team of 4 Data Scientists in designing a GenAI Chatbot on Azure for a global insurance client. I developed the BRD and FRD & architected the solution - improving response times by 30%
- **Data Visualization and Statistical Modeling:** Managed a team of 5 Data Scientists to implement data visualization and statistical modeling (Azure, DataBricks, and SageMaker) for a UK beverage manufacturer, we provided actionable insights that streamlined operations and enhanced decision-making capabilities

Business Operations Manager (Data Science & BI) - Cisco, IndiaNov 2015 – May 2022

- **U.S. Patent Approval:** Successfully submitted U.S. Patent No. 12003408, to leverage supervised classification to enhance network operations, demonstrating innovative leadership in data science solutions
- **Automated Financial Performance Tracking:** Spearheaded the automation of financial performance tracking for a \$1 bn Cisco business in the Americas. Led a team of 2 Data Engineers working on Python, R, Excel, and Tableau, enabling on-demand access to critical business metrics for senior leaders
- **Revenue Forecasting Model:** Directed the creation of a reliable forecasting model for the Fiscal Planning Department, utilizing Python, Holt-Winters, Prophet. Improved demand estimation accuracy by 50%, significantly mitigating risks
- **Global Data Analytics Function:** Initiated and secured funding for a horizontal Data Analytics and Intelligence team within Cisco Advanced Services, leading to a Data Science team of five members. Achieved a ROI exceeding 25%, illustrating strategic vision and operational efficiency.
- **Device Identification through Clustering:** Developed and implemented a clustering (KMeans, SOM) + classification model using XGBoost for device identification, automating the grouping process. This innovation resulted in >500 hours of effort savings and a positive ROI based on post-deployment data analysis - reduced error rates by 25%
- **Metrics Observatory for Government Policy-Making:** Led a team of three in building a Metrics Observatory for the Indian Ministry of Urban Affairs, focusing on air quality index (AQI) and urban transport. Forecasting models and multivariate analysis models (Prophet, XGBoost, Tableau, and SQL) to enhance governmental decision-making
- **Churn Prediction Model:** Developed a classification model to predict customer contract renewal probabilities using Python and XGBoost. Achieved top three ranking in a company-wide competition with over 500 participants, demonstrating analytical acumen and competitive excellence and improved renewal rates by 20%
- **NLP Compliance Model:** Deployed an NLP model to detect and flag personally identifiable information (PII) in incoming data, enhancing GDPR compliance. Utilized Python, TensorFlow, MapReduce, Named Entity Recognition, Spacy, and RegEx, showcasing technical expertise in data privacy.
- **Pre-emptive Maintenance of Technical Documents:** Implemented a classification model via browsing data to identify target documents for pre-emptive maintenance. Led a successful initiative to secure funding and build a team of three Data Scientists, emphasizing project management and team leadership skills.

- **Templatized Predictive Models for Various Sectors:** Developed and standardized predictive model development for the banking, telecom, and retail sectors. It led to **enhanced operational efficiency** resulting in unprecedented growth in project acquisition and expanding our market presence in predictive analytics across the Middle East region.

- Successfully submitted a **U.S Patent (No. 9348878)** for “Automatic Outlier Detection via Iterative KNN Algorithm” for improving outlier detection algorithm (KNN)
- **JAVA + R** engineer for the SAP Predictive Analytics for **ETA + Development + deployment pipeline of a model**. I worked on algorithms across - Regression, Decision Trees & Data prep and a formula function using **JAVACC**

- **Automated the BI & Reporting System** to automatically track the Operational Self-Sufficiency of 80 rural branches of IFMR (using PHP, MySQL, Apache Webserver)

- I undertook the **automation** of the testing framework for the user interface of QuickBooks & automated **testing** of a Web Service (**JAVA, Selenium**) and **reduced the regression cycle by more than 80% for the QA team**

PROFESSIONAL SUMMARY

I am a seasoned leader and practitioner in the Data Science and Business Analytics practice, **possessing expertise in enterprise-level solutions for complex business challenges**. I thrive in leading solutions to problem statements with stakeholders. I take great satisfaction in driving and contributing to businesses with a shared, data-driven objective, emphasizing rapid iteration towards viable solutions.

I possess a comprehensive suite of **leadership & technical skills** essential for effective business intelligence and data analytics supported by Data Science, ML and AI:

Programming Languages: Proficient in **JAVA, Python and R** for data handling and machine learning applications.

Data Manipulation and Analysis: Extensive experience with **SQL, Pandas** (Python) and **Excel** (VBA) for ETL

Data Visualisation: **Tableau, matplotlib and DataBricks** and techniques to communicate insights effectively

Machine Learning & Statistics: Practical experience in **Scikit-learn, TensorFlow** in developing predictive models. I'm a co-inventor in two US patents related to improvements in existing ML algorithms and applications

Cloud Platforms: AWS (Sagemaker), Azure, MLFlow, Airflow and Streamlit

Software Engineering: Experience with **JAVA + CI/CD** and proficient in version control systems such as **Git**.

I moved from Bengaluru, India to Cambridge, UK in early 2022 on a dependent Visa (**Right to work Share Code: W6X GXX 48W**). Following my tenure in a Business Intelligence and Operations Analytics leadership role with Cisco in Bengaluru, I secured a similar position with Wipro in the UK, where I lead a team of 5 data scientists serving clients across the region. After a brief hiatus, I am now actively **seeking opportunities in Analytics and AI, particularly roles that encompass both Data Analytics and Data Science components**.

In relation to this role, my experience as a **Business Operations Manager at Cisco and a Technical Consultant specializing in AI & ML** for Wipro's UK clients, will be highly relevant. My background as a Senior Software Engineer in the Predictive Data Analytics domain at SAP Labs equips me with the necessary skills to navigate the technical processes inherent to this field.

Throughout my career, I have consistently focused on **extracting actionable insights and enhancing decision-making through data science and machine learning**.

Showcasing and enabling positive ROI and statistically proving to businesses that the investment in Data Science and Analytics is going to swing the pendulum in the right direction is a priority for me.
