Sushobhon Karmakar

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SUMMARY

Senior Data Scientist with 5yr of expertise in optimization, forecasting, clustering, and predictive modeling. Proficient in managing the entire data science lifecycle – from data acquisition and ETL to applying advanced analytics, machine learning, deep learning, and reporting. Experienced in driving cross-functional analytics initiatives that support organization-wide goals.

SKILLS

Data Science:	Data Analytics, Predictive Modeling, Forecasting, GenAI, RAG, AI Agents
Tech Stack:	SQL, R, Python, TensorFlow, PyTorch
Platforms & Tools:	Git, CI/CD, Dataiku, Linux

WORK EXPERIENCE

Senior Data Scientist — January 2025 – Present
Tiger Analytics India Consulting Pvt. Ltd. — *Bangalore, India*

- Led team to build and launch **Market Health Dashboard** with Tableau, designing data pipelines and a rule-based engine to convert raw data into actionable insights. Forecasted market health 3 months ahead and ran simulations to define strategic targets. Drove performance turnaround, with 2 of 3 regions improving from decline to neutral in 3 months.
- Led a 2-member team to build a **RAG** based legal document Q&A system. Processed both text-based and scanned PDFs (OCR) to create embeddings in ChromaDB. Implemented metadata-driven access control to ensure chatbot responses are restricted to documents the user is authorized to view. Developed an agentic AI backend with OpenAI models, integrated a simple chat UI, and deployed the solution in Dataiku for client use.

Skills Used: R, Python, SQL, Dataiku, OpenAI, Crewai, LangChain, LangGraph, Streamlit, SQLight, Snowflake, Excel

Data Scientist — August 2023 – December 2024
Tiger Analytics India Consulting Pvt. Ltd. — *Bangalore, India*

- Developed and deployed a Revenue Optimizer with constraints using **Method of Moving Averages (MMA)** to identify high-value opportunities and determine optimal pricing. Resulted **$24.47M revenue growth (+1.2%)** in a single fiscal quarter through direct application of the model.
- Developed a patient segmentation model using **Latent Class Analysis** on survey data, translating raw inputs into strategic personas for targeted engagement. Built and implemented a decision tree-based classification system with an interactive **Shiny dashboard** for non-technical users, operationalizing complex statistical methods into a practical business tool that enabled data-driven patient understanding throughout the organization.

Skills Used: Decision Tree, LCA, R, Python, Excel, Shiny

Senior Data Analyst — August 2021 – July 2023
Tiger Analytics India Consulting Pvt. Ltd. — *Bangalore, India*

- Built and managed predictive models for property rents (**Linear Regression/GBM**) and win probability (**Logistic Regression**). Partnered with stakeholders to identify and resolve model gaps, improving accuracy. Developed Excel **macro-driven dashboards** from model outputs, streamlining discussions and decision-making with leasing officers.

Skills Used: R, Python, Excel, VBA

EDUCATION

- **M.Sc, Statistics:** Indian Institute of Technology, Kanpur (IITK), Utter Pradesh, India — 2018-2020
- **B.Sc, Statistics:** Visva-Bharati University, West Bengal — 2014-2017

CERTIFICATION

- Agentic AI Foundation TAAF-100