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**Professional Summary**

Results-driven **Data Science Lead** with **8+ years of experience** in leveraging Machine Learning, Deep Learning, and Advanced Analytics to drive business value. Expertise in **building scalable data-driven solutions**, **leading cross-functional teams**, and **developing AI-driven strategies** across BFSI, Retail, Healthcare, and E-commerce domains. Proficient in **Python, SQL, Spark, and Cloud Technologies (AWS, GCP, Azure)**. Adept at **deploying ML models at scale** using **MLOps** and **big data technologies**. Passionate about mentoring teams and optimizing data science workflows.

**Technical Skills**

* **Programming:** Python, R, SQL, Scala
* **Machine Learning:** Regression, Classification, Clustering, Time-Series Forecasting, Reinforcement Learning
* **Deep Learning:** CNNs, RNNs, Transformers, LSTMs, Generative AI
* **Big Data Technologies:** Apache Spark, Hadoop, Kafka, Hive
* **Databases:** MySQL, MongoDB, PostgreSQL
* **Cloud & MLOps:** AWS (S3, Lambda, SageMaker), GCP (BigQuery, Vertex AI), Azure (Databricks), Docker, Kubernetes, MLflow
* **Visualization:** Tableau, Power BI, Matplotlib, Seaborn
* **DevOps & CI/CD:** Git, Jenkins, Terraform

**Professional Experience**

**Lead Data Scientist**

**XYZ FinTech Solutions, Bengaluru, India** *(July 2020 – Present)*  
XYZ FinTech is a leading digital lending platform that provides AI-driven financial solutions.  
**Key Contributions:**

* Led a team of **6 Data Scientists** to develop **AI-powered credit risk models**, improving loan approval rates by **35%** while reducing NPA risk.
* Developed an **Anomaly Detection System** using **AutoEncoders and Isolation Forests** to identify fraudulent transactions, reducing fraud by **22%**.
* Optimized the **customer segmentation framework** using **unsupervised clustering (K-Means, DBSCAN)**, increasing personalized product recommendations' conversion rate by **28%**.
* Built a **real-time credit scoring engine** on **AWS using Lambda, Kafka, and SageMaker**, reducing loan processing time from **2 hours to 5 minutes**.
* Implemented **MLOps pipeline with MLflow, Docker, and Kubernetes**, reducing model deployment time by **50%**.

**Tech Stack:** Python, Spark, AWS (S3, Lambda, SageMaker), MLflow, MongoDB, Kafka, Kubernetes

**Senior Data Scientist**

**ABC Retail Analytics, Mumbai, India** *(May 2017 – June 2020)*  
ABC Retail Analytics provides AI-driven insights for retail chains and FMCG brands.  
**Key Contributions:**

* Built a **demand forecasting model using LSTMs and XGBoost** that improved inventory planning, reducing stockouts by **30%**.
* Developed an **AI-powered dynamic pricing model** that adjusted prices in real-time based on demand and competitor analysis, leading to a **15% revenue boost**.
* Designed a **customer churn prediction model** with **Random Forest and Gradient Boosting**, improving retention campaigns’ success rate by **22%**.
* Developed an **image recognition model** for **automated shelf monitoring in stores**, using **YOLO and OpenCV**, reducing manual audits by **60%**.

**Tech Stack:** Python, R, TensorFlow, Azure Databricks, PostgreSQL, Power BI

**Data Scientist**

**LMN Healthcare AI, Hyderabad, India** *(June 2015 – April 2017)*  
LMN Healthcare AI specializes in AI-driven healthcare diagnostics and patient management systems.  
**Key Contributions:**

* Developed a **medical image classification model** using CNNs to detect pneumonia and diabetic retinopathy, achieving **92% accuracy**.
* Designed an **NLP-based chatbot** for patient triage using **BERT and SpaCy**, reducing hospital response time by **40%**.
* Built a **predictive model for disease risk assessment** based on patient EHR data, increasing early disease detection rates by **18%**.

**Tech Stack:** Python, TensorFlow, NLP (BERT, SpaCy), MongoDB, Flask, AWS

**Education**

**Bachelor of Technology (B.Tech.) in Computer Science**  
Indian Institute of Technology (IIT) Delhi | 2011 – 2015

**Certifications**

* **AWS Certified Machine Learning – Specialty**
* **Google Cloud Professional Data Engineer**
* **Certified Kubernetes Administrator (CKA)**
* **Microsoft Certified: Azure Data Scientist Associate**

**Projects**

**1. AI-Driven Credit Risk Scoring for FinTech Lending *(BFSI Domain)***

Developed a **real-time credit risk scoring model** that leveraged **Gradient Boosting and Neural Networks** to assess customer creditworthiness. Integrated **alternative data sources (social media, spending patterns, and telecom data)** for improved risk profiling. **Result:** 35% better loan approval rates, 20% lower default risk.

**Tech Stack:** Python, TensorFlow, Spark, MongoDB, Kafka, AWS Lambda, SageMaker

**2. Predictive Analytics for Supply Chain Optimization *(Retail/FMCG Domain)***

Built a **demand forecasting model** using **LSTMs and XGBoost** to optimize inventory replenishment. Developed a **real-time analytics dashboard** in **Power BI**, helping supply chain managers make data-driven decisions. **Result:** 30% stockout reduction, 18% increase in operational efficiency.

**Tech Stack:** Python, Spark, Azure Databricks, PostgreSQL, Power BI

**3. AI-Powered Dynamic Pricing Engine *(E-commerce Domain)***

Developed a **machine learning-based pricing engine** that adjusted prices dynamically based on **real-time competitor pricing, demand trends, and historical sales data**. **Result:** 15% revenue boost, 12% increase in conversion rates.

**Tech Stack:** Python, Scikit-learn, Flask, AWS Lambda, MongoDB

**Awards & Achievements**

* **Winner – Data Science Hackathon (2022)** hosted by **NASSCOM** for developing an AI-based fraud detection system.
* **Recognized as a Top 10 Data Scientist** in India by **Analytics India Magazine (2021)**.
* **Published whitepaper on "AI in Credit Risk Modelling"** at an **IEEE AI Conference (2023)**.

**Professional Memberships**

* Member, **Association for Computing Machinery (ACM)**
* Member, **Indian Association of Data Scientists (IADS)**