**Nikhil Police**  
Email: policenikhil2000@gmail.com | Contact: 7989873972  
**DATA SCIENTIST**

**Summary:**

Seeking an exciting opportunity in an organization that will enable me to combine my technical expertise in Data Science, Machine Learning, AI and Big data with analytical skills to drive business solutions. Enthusiastic about solving new challenges in Big Data, Cloud AI, and real-time analytics. Results-driven **Data Scientist** with **3.5+ years of experience at Tata Consultancy Services (TCS)**, specializing in **AI/ML model development, predictive analytics, and Big Data solutions**. Proficient in leveraging **Python, PySpark, SQL, and cloud technologies (Azure Data Engineer Associate)** to build scalable, high-performance Pipelines. Strong expertise in the **banking and financial domain**, having worked extensively on **fraud detection, credit risk assessment, and customer analytics**. Adept at **end-to-end data science workflows**, from data extraction, preprocessing, and feature engineering to **model deployment and monitoring using MLOps**. Passionate about solving complex problems through advanced analytics and real-time streaming solutions.

**Skills & Knowledge:**

* **Programming Languages:** Python, SQL, R, PySpark
* **Machine Learning & AI:** Linear & Logistic Regression, KNN, SVM, Decision Trees, Random Forest, Boosting (XGBoost, LightGBM), Clustering, PCA, NLP (NLTK, LSTM), Gen AI, Deep Learning
* **Big Data & Cloud:** Hadoop, Spark (Batch & Streaming), AWS, Azure ML
* **Data Analysis & Visualization:** Pandas, Numpy, Matplotlib, Seaborn, Power BI, Tableau
* **Statistical Methods & Analytics:** Hypothesis Testing, Time Series Forecasting, AutoML, Real-Time & Streaming Analytics
* **MLOps & Model Deployment:** Docker, Kubernetes, Model Validation, Model Monitoring, CI/CD Pipelines
* **Databases:** SQL, NoSQL (MongoDB), Data Warehouses & Data Lakes

**Experience:**

**Tata Consultancy Services (TCS) | Data Scientist (July 2021 – Present)**

* **Worked on AI/ML model development & deployment** for large-scale **financial & retail analytics projects**.
* Developed predictive models for **customer segmentation, fraud detection, and credit risk assessment**.
* Designed and optimized **Big Data pipelines using PySpark (Batch + Streaming)**.
* Built and deployed **ML models on Azure ML**, integrating MLOps for scalable automation.
* Created **real-time analytics dashboards using Power BI & Tableau** for monitoring data trends.
* Worked with **10TB+ datasets** for advanced analytics, using **feature engineering and AutoML**.
* Collaborated with cross-functional teams for **data extraction, transformation, and business insights.**

**Academic Projects:**

* **Classifying Silhouettes of Vehicles:** Used **PCA & SVM** for classification tasks in computer vision.
* **Predicting Strength of High-Performance Concrete:** Applied **Decision Tree Regression & Feature Engineering**.
* **Identifying Potential Loan Customers:** Built **classification models (Naïve Bayes, Logistic Regression, KNN, SVM)** for banking sector.
* **Sentiment Analysis & Sarcasm Detection:** Developed **deep learning models (LSTM, word embeddings)** for IMDB review analysis.

**Education:**

* **B.Tech in Electronics & Communication Engineering**, CMR Institute of Technology (7.6 CGPA, 2021)
* **Intermediate (Math, Physics, Chemistry),** St. Anthony’s Junior College (91.2%, 2017)
* **SSC, Rishi High School** (9.3 CGPA, 2015)

**Certifications:**

* **Machine Learning & AI Certification** – Structuring Machine Learning Projects
* **Big Data & Cloud AI/ML Certification** – Azure Data Engineer Associate

**Leadership & Achievements:**

* **Organized an NSS Event** at a government school in SriRangaPatnam.
* **Volunteered in 4G LTE SYSTEMS research** at CMR Institute of Technology.
* **5-Star Gold Badge in Python** – HackerRank.
* **First Prize in Srinivasa Ramanujan Maths Forum.**