Shriyansh Singh

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SUMMARY

Aspiring Data Scientist with hands-on experience in developing machine learning models and big data applications using Python, Spark, and AWS. Proven track record of implementing data-driven solutions that improve business outcomes. Passionate about leveraging data science to drive innovation and efficiency.

PROFESSIONAL EXPERIENCE

Machine Learning Intern *Apr 2024 – Present*

Hyphenova AI *Los Angeles, California*

- Led cross-functional teams to deploy NLP-based models, utilizing Agile methodologies to improve brand-creator matching by 30% and enhance overall user satisfaction.
- Optimized predictive models by refining Random Forest algorithms and employing advanced feature selection techniques, boosting matching success rates by 25% and overall campaign performance.
- Augmented model accuracy by 15% for underrepresented categories through SMOTE resampling, enhancing system reliability in handling data imbalance.
- Architected scalable data pipelines with Apache Spark and AWS, reducing data processing time by 40%, which aligns with Databricks' focus on cloud-based data processing.
- Incorporated real-time data quality checks with custom scripts, elevating data reliability by 30% and reducing analytics errors by 20%.

Junior Business Analyst Intern *May 2022 – Oct 2022*

Enterprise Business Technologies Pvt. Ltd *Mumbai, India*

- Spearheaded the implementation of the OKR framework, aligning project strategies with business objectives, leading to a 25% increase in project completion rates and 20% enhancement in client satisfaction.
- Revamped Power BI data analysis systems by refining data models and automating validation processes, improving report reliability by 15% and accelerating report generation by 40%.
- Conducted market analysis using linear regression and time series forecasting, improving forecast accuracy by 18% and driving a 10% increase in quarterly revenue.

EDUCATION

Indiana University Bloomington Indiana, United States

Master of Science in Data Science *Aug 2023 – May 2025*

University of Mumbai Maharashtra, India

Bachelor of Engineering in Information Technology *Aug 2019 – May 2023*

PROJECTS

Fraud Detection in Financial Transactions | *Python, XGBoost, Apache Spark* *Jan 2024 – Apr 2024*

- Developed a fraud detection system using Python and XGBoost, achieving a 28% increase in detection accuracy; utilized Apache Spark for real-time data processing, demonstrating innovation in model development.
- Engineered transaction pattern recognition and anomaly detection features with unsupervised learning, increasing system reliability and reducing customer complaints by 40%.
- Streamlined the model pipeline with Apache Spark, enhancing data processing efficiency by 40% and enabling the system to handle a 3x increase in transaction volume without performance bottlenecks.

Customer Churn Prediction for Telecom Industry | *TensorFlow, Keras, AWS SageMaker* *Aug 2023 – Oct 2023*

- Designed a customer churn prediction model with TensorFlow, Keras, and LSTM networks, leading to a 22% increase in customer retention by accurately identifying at-risk accounts.
- Analyzed customer behavior using Pandas and SQL, improving model precision by 18% through correlation analysis and feature selection, enabling targeted retention strategies.
- Deployed the model on AWS SageMaker, leveraging autoscaling and batch inference for scalable predictions, resulting in a 15% reduction in overall churn rate.

SKILLS

Programming Languages: Python, R, SQL, NoSQL, Java, C/C++, Julia, GoLang, Scala, Bash
ML Toolkit: Scikit-learn, TensorFlow, PyTorch, Pandas, NumPy, Matplotlib, Hugging Face
Data Engineering: Hadoop, Spark, AWS (S3, EC2, Redshift, Lambda, Glue), GCP, Azure (Data Factory, Synapse Analytics), Terraform, Docker, Kubernetes, Git, Databricks, Apache Kafka, Airflow, Pyspark
Analytical Tools: Alteryx, Tableau, Power BI, D3.js, Statistical Analysis, Time Series Analysis, A/B Testing