SHRIYANSH SINGH

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EDUCATION

Indiana University Bloomington Aug 2023 – May 2025
Master of Science in Data Science Indiana
Relevant Courses: Information Visualization, Data Mining, Applied Machine Learning, Statistics, Big Data Applications, Cloud Computing, Graph Analytics, Applied Database Technologies, Intelligent Systems

PROFESSIONAL EXPERIENCE

Machine Learning Intern April 2024 - Present
Hyphenova AI Los Angeles, California

- Led cross-functional teams to successfully deploy NLP-based content filtering algorithms using Agile methodologies, resulting in a 30% increase in brand-creator matches and a 15% improvement in user satisfaction
- Optimized predictive models by refining Random Forest algorithms and employing advanced feature selection techniques, boosting brand-creator matching success rates by 25% and overall campaign performance
- Augmented model accuracy by 15% for underrepresented categories by implementing SMOTE resampling techniques, which also increased system reliability in handling data imbalance
- Architected a high-performance data pipeline leveraging Apache Spark and AWS, slashing data processing time by 40%, thus enabling real-time analytics and driving stronger brand engagement
- Incorporated real-time data quality checks using custom validation scripts, elavating 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, resulting in a 25% increase in project completion rates and a 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%
- Executed market analysis utilizing linear regression and time series forecasting, improving forecast accuracy by 18% and driving a 10% increase in quarterly revenue

PROJECTS

Fraud Detection in Financial Transactions Jan 2024 – Apr 2024

- Developed a real-time fraud detection system with Python, Scikit-learn, and XGBoost, achieving a 28% increase in detection accuracy and a 35% reduction in false positives through feature engineering and hyperparameter tuning
- Engineered transaction pattern recognition and anomaly detection features using unsupervised learning, increasing system reliability and reducing customer complaints by 40%
- Streamlined the model pipeline with Apache Spark, improving data processing efficiency by 40% and enabling the system to accommodate a 3x increase in transaction volume without any performance bottlenecks

Customer Churn Prediction for Telecom Industry 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

- **Scripting Languages:** Python, R, SQL, NoSQL (MongoDB, Neo4j), 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