Roshan Raj Singh

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PROFILE

Accomplished Data Science professional with 7+ years of experience with a Master's in Business Analytics, seeking Data Scientist role. Demonstrative track record of transforming complex data into actionable insights across diverse industries.

SKILLS

- **Languages :** SQL, Python (Tensor Flow, NumPy, Pandas, SciKit-Learn, Keras, Matplotlib), R.
- **Tools and Technology :** Tableau, PowerBI, GCP – BigQuery, Hadoop, SAS EM, Advanced Excel(@Risk, Minitab).
- **Certifications:** AWS Cloud Practitioner, Tableau Desktop Specialist, Microsoft Azure Fundamentals professional.
- **Competencies**: Statistics, Predictive Analytics, Time Series Analysis, Deep Learning, Simulation, Dashboarding & Storytelling.

EDUCATION

Purdue University, Daniels School of Business   **West Lafayette, IN**
Master of Science in Business Analytics and Information Management(STEM)   **August 2024**
- Served as a Teaching Assistant for a graduate-level course in R programming, providing support and guidance to students.

Manipal University, Manipal Institute of Technology   **Manipal, India**
Bachelor of Technology in Civil Engineering   **May 2015**

ACADEMIC PROJECTS

- **Predicting Firm Bankruptcy with Machine Learning** – Developed an ensemble model of Neural Network and Gradient Boosting to classify bankruptcy using 64 indicators on SAS EM with 91% accuracy.
- **AI-Driven Airbnb 'Superhost' Churn Prediction** – By leveraging analytics and AI models to produce key retention factors and actionable insights while predicting 'superhost' churn with 82% sensitivity rate.
- **Cryptocurrency Price Forecasting using AI Time Series Model** – Implemented AI driven time series model to forecast prices of crypto assets with RMSE below 0.12 by utilizing rolling window concept for higher precision.
- **Identifying High Value Spectators for NCAA** – Designed a multi class classification model to identify ticket buying spectators for NCAA by analyzing past purchasing behavior with over 98% accuracy.

PROFESSIONAL EXPERIENCE

Kearney   **West Lafayette, IN**
Data Science Intern (Capstone Course)   **Jan 2024 – Apr 2024**
- Delivered a Tableau dashboard and implemented regression model while consulting for a welding equipment manufacturer to forecast supplier risk scores, achieving 98.7% R-squared value and enhancing delivery performance by over 40%.

EXL Service   **Gurgaon, India**
Consultant   **May 2021 – Jul 2023**
- Directed comprehensive analysis for a utility firm's customer data through HIVE interface and implemented classification models, leading to decrease in churn rate from 23% to less than 10%.
- Led commercial team overseeing 3 service-based products, driving sales, customer retention and satisfaction.
- Mentored 4 analysts across 5 projects – established a robust knowledge management framework encompassing seamless onboarding, career growth and professional advancement strategies of new recruits.

Ugam Solutions (Merkle)   **Bangalore, India**
Analyst   **Aug 2019 – May 2021**
- Implemented Machine Learning algorithms to design classification models with 87% accuracy and identified customer attrition factors, yielding more than 10% reduction in attrition rate.
- Analyzed a 20,000+ customer base, applying segmentation techniques to categorize it into 'newly acquired' and 'mature' segments, facilitating customized solutions and optimized model application.
- Optimized overhead for an Australian retailer's operation by developing an R code to analyze customs, duty codes, and supplier costs – reducing overall overhead by 5%, eliminating previously untraceable wasteful spending.

TATA Consultancy Services   **Bangalore, India**
System Engineer   **Nov 2015 – Aug 2019**
- Delivered accurate classification models using Logistic Regression to identify credit card application fraud, reducing such instances by over 20% while consulting for a UK based investment banking firm.
- Reengineered a regression model for forecasting and increasing mean time between failures of medical equipment by over 10%, significantly reducing maintenance costs for a North American medical technology firm.

LEADERSHIP ACTIVITIES, AFFILIATIONS, HONORS

- Successfully secured first place out of 88 entries at the prestigious 2024 Informs Analytics Conference poster competition.
- Recognized with Certificate of Employee Appreciation at EXL Genius Awards.
- Honored with Award of Accountability and practicing Customer First perspective by Ugam Solutions(Merkle).