ABHISHEK VERMA

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SUMMARY

Senior Data Scientist at LendingTree, with 4.5 years of experience in executing data-driven solutions to increase efficiency, accuracy, and utility of internal data processing. Proficient in data wrangling, feature generation, building and evaluating predictive models to deliver insights and implement action-oriented solutions to complex business problems.

TECHNICAL SKIILS

- **Programming Languages and Databases:** Python, R, SQL, Hadoop (Hive), Redshift, Athena.
- **Software and Tools:** Tableau, GitHub, SPSS, AWS,DataRobot (Auto ml) , Microsoft Excel, Scikit-learn, Numpy,Pandas,Matplotlib, Statsmodels
- **Project Management:** Agile Scrum, MS Project, Lean Six Sigma.
- **Operating Systems:** Windows, Linux

PROFESSIONAL EXPERIENCE

Senior Data Scientist, LendingTree, Ahmedabad, India| Mar 2021 – Present

- Identified Key drivers of Net Promoter Score (NPS) using decision tree for Refinance product and helped customer experience team to redesign feedback process.
- Built lead Score model using XGboost algorithm with 0.81 AUC for Purchase and Business Loan products to quantify the expected quality of a lead and then matching it to relevant marketplace and lenders
- Identified segments to create opportunities for cross selling, leads redirected to personal loans from mortgage vertical.
- Developing, publishing, and maintaining Tableau views which are leveraged by the executives and senior management for daily performance evaluation.

Application Development Analyst, Accenture, Mumbai, India | Jan 2017 – Aug 2019

- Leveraged SQL queries to fetch large financial datasets from RDBMS and Multidimensional database, designed reports as per the business requirements for ad-hoc requests and periodical reporting.
- Extracted point of sales (POS) transaction data for all the stores present in UK and built predictive models to forecast the sales trend on monthly basis.
- Used supervised and unsupervised learning techniques for creating user models to optimize the retail sales campaigns.
- Drew the trend for average discrepancy between invoices and purchase orders to detect faults and fraud in matching process of accounting.
- Analyzed the data to determine sample distribution and identify anomalies before leveraging it for Hypothesis and A/B test.
- Supported the data validation and transformation segments of the ETL pipeline defined for monthly sales data.
- Improved accuracy and speed of financial reporting by setting up schedulers to run multiple jobs concurrently for data collection and reconciliation, automating the end-to-end process for real time reporting.

Software Engineering Associate, Accenture, Mumbai, India | Oct 2015 – Jan 2017

- Supported migrations from legacy systems to improved technologies for scalability and applicability in workflows.
- Identified IT development enhancements to increase efficiency and user satisfaction.

- Controlled and managed all financial transactions using ERP tool, Aptos from B-Plan. Subject Matter Expert on financial accounting & reporting logics (e.g., P&L structure, accruals).
- Gathered the requirements from business, translated them into appropriate analysis, interpreted in terms of KPI's for reports and created business Requirement Documents
- Conducted lunch and learn sessions to ramp up team members with the functional and technical knowledge of ongoing projects.
- Assisted stakeholders in User Acceptance Testing by testing software packages for defects to resolve issues
- Integrated Automation Solution built on Robotic automation process with existing systems and automated multiple rule-based business process, in result productivity got increased by 10%.

DATA SCIENCE PROJECTS | Sep 2019 – Oct 2020

- **Click Prediction:** Binary classification model for highly imbalanced dataset using Logistic Regression, Random forest & Catboost, crossing the baseline score for click prediction Kaggle competition of recommender-system as-a-service Darwin & Goliath, Mr. DLib.
- **Income Prediction Kaggle competition:** Built Regression models with about 95 % of accuracy on the large income dataset using Different ML Algorithms: Catboost, XGboost, LGBM,Linear Regression.
- **Audio and Image Captcha Cracker:** Built CNN Model for cracking Image Captchas of 4-8 Characters & Audio Captchas generated from multiple Text to Speech (TTS) Services with about 90% accuracy.
- **EDA visualization of sports league dataset on Tableau:** Built dashboard for exploratory Data visualization of Indian premier league tabular Dataset containing continuous and categorical variables via Tableau to extract factors affecting the result of any match.
- **Text Analytics to find correlation between press release and stock price**: Extracted sentiments from text of several press releases through VADER lexicon and POS tagger comparison using NLTK library to find the correlation between press release and stock price.
- **Time Series forecasting on python:** Built a predictive model to forecast stock price from ARIMA and LSTM models. Optimized investment portfolio manager by comparing four different algorithms.
- **Clustering Package Development in R:** Built a predict function using Bayesian analysis for BayesLCA package available for soft clustering (Probabilistic modeling) through statistical analysis in R to make inferences on new unseen data.

EDUCATION
Masters in Data Science, Trinity College Dublin, Dublin, Ireland| Sep 2019 – Oct 2020
- **Relevant Coursework:** Machine Learning, Artificial Intelligence, Data Analytics, Text Analytics, Data Visualization, Optimization Algorithms for Data Analysis, Applied Statistical Modelling

B.E. in Electrical Engineering, L.D. College of Engineering, Ahmedabad, India |Jul 2011- May 2015
- **Relevant Coursework:** Linear Algebra, C, C++, MATLAB

CERTIFICATIONS
- Python Data structures
- Foundations for Big Data Analysis with SQL
- Neural Networks and Deep learning
- AWS Fundamentals: Going Cloud-Native
- Google Analytics for Beginners

PERSONAL INTERESTS
Kriya Yoga, Gaming