Kumar Rajmani Bapat

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Education

Northeastern University — Boston, MA
Master of Science, Data Analytics Engineering — **Expected Dec 2024**
- Relevant Courses: Data Analytics, Data Management, Computation and Visualization, Data Mining in Engineering, Product Development for Engineers

Medi-Caps University — Indore, IN
Bachelor of Technology, Computer Science Engineering (Specialization: Data Science) — **May 2022**
- Relevant Courses: Software Engineering, Data Science, Machine Learning, SQL, Natural Language Processing, NoSQL, Design Structure & Algorithms, Artificial Intelligence, Real Time Data Processing, Statistics Inference

Technical Skills and Certifications

Analytics Skills: Python, Tableau, SQL, Excel, Google Analytics, Power BI, SAP, SAS, MATLAB, SPSS, Apache Spark
Programming: Python, Java, SQL, JavaScript, C++, PySpark, R, Gremlin, Cypher, C, GCP, Git, Linux, UNIX
Machine Learning libraries: Pandas, NumPy, Matplotlib, Seaborn, TensorFlow, OpenCV, Scikit-Learn
Databases: MySQL, MongoDB, SSMS (SQL Server), PostgreSQL, Snowflake, Oracle, AWS Neptune, Neo4J
Certifications: Python- Google, data analysis -LinkedIn, Azure Data- Microsoft, Career Edge -TCS, Microsoft Office

Professional Experience

Graduate Teaching Assistant (Data Analytics)– Northeastern University, Boston **Sep 2023 - Dec 2023**
- Elevated student assignment scores by 30%, demonstrating high levels of concept mastery and practical data science proficiency through targeted office hours and interactive code walks
- Conducted sentiment analysis on student data, tailoring teaching methodologies to optimize learning experiences and drive improved academic results

Research Data Scientist Intern – India Metrological Department, Bhopal (IN) **Dec 2020 - Nov 2021**
- Developed a high-precision AI-driven crop disease detection model using CNN and image processing techniques, providing farmers with actionable data insights that led to a significant 15% reduction in crop losses
- Evaluated machine learning models on dataset of over 85,000 images using image reduction, feature engineering, and data automation techniques, resulting in a 60% reduction in workload
- Optimized the performance of machine learning model by strategically applying PCA, KNN, and the Decision Tree algorithm, resulting in a 70% increase in accuracy of model

Data Science Intern – Indian Institute of Technology, Kanpur (IN) **Jun 2019 - Aug 2019**
- Revamped customer churn prediction at Courses by implementing a Python-based predictive model, resulting in a 18% accuracy boost existing models, facilitating proactive customer retention strategies
- Strategically utilized Tableau, Python, and Google Analytics for report generation, enabling data-driven decision making and effective data visualization, culminating in a 30% boost in user experience
- Architected a Machine Learning algorithm for audience segmentation and recommended relevant education courses based on user behaviors, resulting in a 20% increase in enrollments
- Conducted thorough analyses of email, push, SMS, OTT, CTV, and other marketing campaigns to identify key performance factors, resulting in a 9% improvement in conversion rates, and a 10% increase in ROI

Projects

Credit Card Users Churn Prediction **Aug 2023- Sep 2023**
- Formulated a Logistic Regression model for predicting credit card churn, achieving an impressive accuracy of 88%
- Enhanced model performance through rigorous data preparation and feature selection, unveiling key churn-related features and leading to a significant 10% improvement in model accuracy

Cardio-Viz: Interactive Heart Disease Analysis & Prediction **May 2023 -Jun 2023**
- Implemented a Tableau-based predictive model for heart disease risk classification, achieving accuracy rate of 90%
- Utilized the insights from the predictive model to design targeted health interventions, contributing to a potential decrease in heart disease incidence among the high-risk population

Stock market Time Series analysis With ARIMA **Mar 2023-May 2023**
- Analyzed top 500 stock market data using ARIMA, identifying trends and patterns for informed investment decisions
- Leveraged ARIMA insights and generated a remarkable 12% profit, validating its effectiveness in real-world trading

EDA: Twitter Sentiment Analysis Using NN **Jan 2023- Mar 2023**
- Developed an Artificial neural network utilizing TensorFlow and NLP techniques to classify the sentiment of tweets
- Evaluated the model on the 140 Sentiment dataset of 1.6 million tweets, achieving an accuracy of 74%, demonstrating its ability to effectively analyze real-world Twitter data

B2B Ecommerce Website with AI Chatbot **Feb 2022 - Aug 2022**
- Engineered a secure B2B ecommerce platform in Django, seamlessly integrating a Flask AI chatbot and boosted user engagement by 20% through real-time guidance and personalized product recommendations
- Achieved a 15% improvement in conversion rates by delivering a streamlined online shopping experience, implementing robust security measures, intuitive navigation, and incorporating user feedback processes