

# Kumar Rajmani Bapat

Boston MA • (857) 200-6102 • [bapat.k@northeastern.edu](mailto:bapat.k@northeastern.edu) • [linkedin.com/in/kumar-rajmani-bapat/](https://www.linkedin.com/in/kumar-rajmani-bapat/) • [GitHub](#)

## 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, Big Data Analytics, Graduate Teaching Assistant (Foundation of Data Analytics Engineering)

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

**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 a 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 a machine learning model by strategically applying PCA, KNN, and the Decision Tree algorithm, resulting in a 70% increase in accuracy on the test dataset

**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

## Publications

I am a Google Certified Python Expert & Instructor of following highly subscribed courses on reputed training platforms

**Top Courses Taught:** Flask: Develop Web App, Data Structures in Python, Chatbot, Python for Data Science and Machine Learning; Data Science Machine Learning AI with 7 hands on Projects, Mastering Leet-Code in Python.

**Top Books Authored:** Data Analysis, Flask, R Programming