Kumar Rajmani Bapat

Boston • (857) 200-6102 • bapat.k@northeastern.edu • 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, AI

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
Tools & Languages: Python, Java, SQL, JavaScript, C++, PySpark, R, Gremlin, Cypher, C, GCP, Git, Linux, UNIX
Machine Learning Skills: Pandas, NumPy, Matplotlib, Seaborn, Keras, 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, MS Office, Cloud

Professional Experience

Research Data Scientist Intern – India Metrological Department, Bhopal (IN) — **Dec 2020 - Nov 2021**
- Engineered a high-precision AI-driven crop disease detection model utilizing CNNs and Image Processing, providing critical data insights led to a significant 15% reduction in crop losses for agricultural consumers
- Collaborated with interns to assess machine learning models on a 85k+ dataset, streamlining process and reducing workload by 60% through efficient image reduction, feature engineering, data automation
- Optimized machine learning techniques including Gradient Boosting, Random Forests, and Support Vector Machines (SVM) to boost model efficiency by 70%, attaining an impressive accuracy of 99.2%

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 15% accuracy boost existing models , facilitating proactive customer retention strategies
- Authored reports using descriptive statistical methods using Tableau and Python, Google Analytics, resulting in 30% increase in user experience, through insightful data visualization and analysis
- Architected a Machine Learning algorithm for audience segmentation and recommended relevant education courses based on user behaviors, resulting in a 20% increase in enrollment
- 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**
- Developed a machine learning model that achieved 88% accuracy in predicting credit card user churn
- Optimized the model using Logistic Regression and machine learning techniques, improving precision to 0.92 and recall to 0.93 for non-churned users, and precision to 0.62 and recall to 0.60 for churned users
- Identified key features associated with churn, such as account age, transaction history, and credit score that increased the model's accuracy by 10%

Cardio-Viz: Interactive Heart Disease Analysis & Prediction — **May 2023 -Jun 2023**
- Utilized Tableau for heart disease factor analysis
- Achieved over 90% accuracy in gender-based disease risk classification
- Presented findings through visually appealing dashboards for actionable health recommendations

Stock market Time Series analysis With ARIMA — **Mar 2023-May 2023**
- Conducted Time Series analysis on the top 500 stock market data using the ARIMA model
- Tested the analysis strategy in real-time market conditions, validating its effectiveness
- Successfully made a profit of 12 percent by applying the insights derived from the model

EDA: Twitter Sentiment Analysis Using NN — **Jan 2023- Mar 2023**
- Developed a Twitter Sentiment Analysis model using TensorFlow and NLP, achieving 74% accuracy
- Assessed model performance through confusion matrix analysis
- Evaluated the neural network model on the 140 Sentiment dataset of 1.6 million tweets

B2B Ecommerce Website with AI Chatbot — **Feb 2022 - Aug 2022**
- Devised online efficient shopping solution B2B ecommerce website in Django and with integrated AI chatbot with it in Flask guides user throughout shopping journey

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, Chabot, 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