

# Kumar Rajmani Bapat

Boston, MA 02120 • (857) 200-6102 • [bapat.k@northeastern.edu](mailto:bapat.k@northeastern.edu) • [LinkedIn](#) • [GitHub](#)

## Education

### Northeastern University

Master of Science, Data Analytics Engineering

Boston, MA

Expected December 2024

### Medi-Caps University

Bachelor of Technology, Computer Science Engineering (Spec: Data Science, Software Engineering) May 2022

Indore, IN

## Professional Experience

### Research Data Scientist Intern – Indian Metrological Department; Bhopal (IN) Dec 2020 - Nov 2021

- Implemented a real-time **AI-based crop disease detection system** that uses image data and advanced machine learning techniques to achieve high accuracy results
- Demonstrated efficient use of **data structures and algorithms** to enhance system **efficiency by 40%** and reduce **storage costs by 50%**, resulting in improved effectiveness and cost savings for the company
- Led **ML model** assessment on 85k images with scientists. Achieved 60% team workload reduction via efficient **image reduction, feature engineering**, and **data flow automation**
- Achieved 70% ML model efficiency boost and 99.2% accuracy through **optimal techniques**. Delivered project smoothly, driving **8-9% CTR increase** and substantial growth

### Data Science Intern – Indian Institute of Technology; Kanpur (IN) Jun 2019 - Aug 2019

- Revamped the customer churn prediction process for Courses by implementing a predictive model using **Python**. Achieved a 15% improvement in accuracy compared to existing models, enabling proactive customer retention strategies
- Authored reports using descriptive statistical methods using **Tableau** and **Python, Google Analytics**, resulting in a 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

### Data Science and Business Analyst Intern – The Spark Foundation Jun 2021 – Jul 2021

- Performed sentimental analysis on **social media** data to understand the public sentiment towards social development initiatives and identify opportunities to improve effectiveness of government programs

## Skills and Certifications

Analytics skills: Python, SQL, Excel, Tableau, Google Analytics, Power BI, SAS, SAP

Cloud skills: Google Cloud (Completed Data Science and Machine Learning Tracks), AWS, Azure, Salesforce

Certifications: Python - Google, data analysis -LinkedIn, Azure Data- Microsoft, Career Edge -TCS, MS Office - Merit Comp, Block chain Essence & Introduction D-apps: Block chain school, SQL for Data Science – Coursera

## Projects

### CardioViz: Interactive Heart Disease Analysis & Prediction May 2023 –Jun 2023

- Employed Tableau to create interactive dashboards for data analysis, identifying crucial factors related to heart disease
- Achieved over 90% accuracy in gender-based classification for heart disease risk factors, presenting findings through visually appealing dashboards for actionable recommendations and preventive measures

### Stock market Time Series analysis With ARIMA Mar 2023- Jun 2023

- Analyzed a time series of 50 stocks and Predicted Stock Performance by taking key parameters into Consideration closing, open price, value etc and gathered moving average and fitting into ARIMA

### B2B Ecommerce Website with AI Chat-bot Feb 2021 - Aug 2021

- 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 and published Research Based books: **Courses Taught:** Flask: Develop Web App, Data Structures in Python, Chabot, Python for Data Science and Machine Learning; DS ML AI with 7 hands on Projects, Mastering Leet-Code in Python. **Books Authored: Data Analysis, Flask, R Programming**