

Kumar Rajmani Bapat

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

Education

Northeastern University

Master of Science, DataAnalytics 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.