

RAJ PANKAJ DOSHI

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Education

Northeastern University, Khoury College of Computer Sciences, Boston, MA May 2023

Master's of Science, Data Science

GPA: **4.0/4.0**

Relevant Courses: Algorithms, Supervised and Unsupervised Machine learning, Data Management and Processing.

K.J Somaiya College of Engineering, Mumbai, India

Jun 2021

Bachelor's in Engineering, Computer Science

GPA: **3.75/4.0**

Relevant Courses: Design of Algorithms, Data Structures, Data Mining, Machine Learning, Database Technologies.

Skills

Languages: Python, R, Java, C, C++, HTML, CSS, JavaScript.

Frameworks / Libraries: Pandas, sci-kit-learn, Keras, Matplotlib, NumPy, Bootstrap, CodeIgniter, Flask.

Database: SQLite, MySQL, Oracle, PostgreSQL.

Technologies: Machine Learning, Deep Learning, NLP, Data mining, and Visualization.

Experience

Solution Planets, Mumbai, India

Jun 2020 - Sep 2020

Software Development Intern

- Developed an Online Learning Platform for efficient learning of students by providing them instant access to several prerecorded and downloadable courses on a wide variety of topics.
- Designed and integrated backend APIs for the admin and testimonial screens using PHP's CodeIgniter MVC Framework which enhanced the platform's functionality and reduced the execution time by almost 30%.

Sahu Technologies, Mumbai, India

Dec 2018 - Feb 2019

Web Development Intern

- Worked mainly on design, user experience, and database maintenance of a client website for commercial and economical online market sales.
- Created multiple screens in accordance with business requirements using HTML, CSS, and Bootstrap. Also, got exposure to concepts of Search Engine Optimization, design integration, and development.

Major Projects

Malaria Prediction using Transfer Learning, Northeastern University

Jan 2022 - Feb 2022

- Compiled a transfer learning CNN model using VGG19 learned weights out of ImageNet dataset on 22,167 images to predict if a person is infected with malaria.
- Performed hyperparameter tuning to perceive an optimal batch size and epochs and attained a recall rate of 98.76% on testing data.

Pollution Prediction System, Northeastern University

Nov 2021 - Dec 2021

- Implemented Linear, Polynomial, Random Forest, and Neural network models and compared their effectiveness in the prediction of the proportion of different constituents of air.
- Achieved optimal results by performing hyperparameter tuning and Early stopping to avoid overfitting.
- Utilized Sklearn libraries to evaluate and find the least RMSLE and achieved an optimal score of 0.033 using Neural Networks which aided in securing a place in the top 5 on the Kaggle leaderboard.

Covid-19 Data Analysis, K.J Somaiya College of Engineering

June 2020 - July 2020

- Conducted a comparative study and analysis of the Covid-19 outbreak across 29 states in India based on various features such as recovery rate, death rate, etc.
- Created eclectic plots and Choropleth maps using R to visualize the level of variability within a region.

Extra-curriculars & Certifications

- JP Morgan Software Virtual Experience** – Data Visualization, Perspective, and Frontend Web Development.
- Volunteered in Food Distribution Campaigns for 3 months during the Covid-19 pandemic held by NGO which aided over 1000 underprivileged households. - **Jain Youth Foundation**.