

YASH BAFNA

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EDUCATION

- **Brown University** Providence, RI
Master of Science, Computer Science; GPA: 3.8/4.0 Aug 2021 – May 2023
 - **Relevant Coursework** - Computer Vision, Data Science, Data & Society, Deep Learning, Human Computer Interaction, Machine Learning, Probability & Statistics, Statistical Learning, User Interfaces and User Experiences
- **University of Mumbai** Mumbai, India
Bachelor of Engineering, Computer Engineering; GPA: 8.8/10.0 Aug 2017 – May 2021
 - **Relevant Coursework** - Algorithms, Applied Mathematics, Artificial Intelligence & Soft Computing, Big Data Analytics, Computer Graphics, Computer Networks, Computer Organization & Architecture, Database Management System, Data Structures, Data Warehousing & Mining, Discrete Structures, Information Systems, Machine Learning, Microprocessors

TECHNICAL SKILLS

- **Programming Languages:** C, C#, CSS, HTML, Java, JavaScript, Julia, Php, Python, R, React
- **Tools & Technologies:** Asp.net, Flask, Flutter, Git, Jenkins, Jira, Kafka, MySQL, Postman, Swagger
- **Machine Learning Libraries:** Keras, Matplotlib, NumPy, OpenCV, Pandas, Scikit-Learn, TensorFlow

WORK EXPERIENCE

- **Tesla** Fremont, CA
Software Development Engineering Intern May 2022 – Aug 2022
 - Full-stack developer for the IT Applications team, responsible for building a payment collection application to track various payment collection forms for all the products and services offered
 - Added support for new states and countries of operation by creating new workflows into the existing system
 - Modified the energy division's payment application's workflow to use more inheritance and tweaked the database architecture to remove any unwanted and duplicate results to in-turn decrease computational costs
- **PDB Technologies and Solutions** Pune, India
Data Science Intern Jun 2020 – Aug 2020
 - Conceptualized and developed a chatbot for the organisation applying Deep Learning techniques
 - Incorporated the Feed-Forward Neural Network model to classify the category of user's message and give an appropriate response from the enlisted responses
 - Designed the front end using Tkinter library to enable getting input messages from the user and displaying appropriate responses generated by the bot
- **Reliance Jio Infocomm** Mumbai, India
Big Data Analytics and Machine Learning Intern Jun 2019 – Jul 2019
 - Performed web scrapping of customer reviews about products and services offered by the company from popular websites, applied Natural Language Processing and Sentiment Analysis and created Word Clouds
 - Programmed an HR Attrition prediction model employing Random Forest Classifier to help the management understand how successfully the company is in retaining their employees
 - Evaluated Customer Churn prediction using Random Forest Classifier to understand the percentage of customers abandoning the company's products and services

RESEARCH AND PROJECT WORK

- **Acuity** | *Student Attentiveness Monitoring System* | [🔗](#)
 - Engineered an automated analytic system to monitor and classify students' attention during online lectures and generate a detailed report for the instructor
 - Incorporated Convolutional Neural Network model with CAFFE framework for accurate face detection and CSRT tracker to track and derive the students' head displacement
 - Published the paper in International Research Journal of Engineering and Technology (IRJET) Vol 8, Issue 7, Jul 2021 S.No: 25
- **Maze Solver** | *Finding Shortest Path In A Maze* | [🔗](#)
 - Developed a CLI application that takes an image of a maze as input and generates the shortest path solution for it
 - Implemented path finding algorithms such as Dijkstra, A* and Meet-in-the-Middle to find and visualize shortest possible path in less than a second
- **Heart Health** | *Heart Disease Prediction* | [🔗](#)
 - Developed a classification based heart disease prediction model incorporating Machine Learning models such as Support Vector Classifier, Random Forest and Decision Trees
 - Computed global and local feature importance were computed for the best model using the permutation technique, coefficient technique and SHAP.