ADITYA BAJAJ

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EDUCATION

Master's in Software Engineering   **Graduating May 2021**
Arizona State University, Tempe, USA   GPA: 3.13/4
Relevant courses: Advanced Data Structures & Algorithms, Software Verification, Validation & Testing, Software Agility
Teaching Assistant: Data Mining

Bachelor of Engineering in Computer Engineering   **Graduated in May 2019**
University of Mumbai, Mumbai, India   CGPA: 7.36/10
Relevant courses: Artificial Intelligence, Machine Learning, Distributed Database Systems, Theoretical Computer Science

TECHNICAL SKILLS

Programming Languages : Python, Java, C, C++, C#, R, SQL
Web Technology Skills : HTML5, CSS, JavaScript, PHP, Node.js, React.js, React Native, Django, Flask, WordPress
Other Tools : Adobe Photoshop, Android Studio, MATLAB, Git, Tableau, Firebase
Badges by **IBM :** Applied Data Science with Python | Applied Data Science with R | Build your own Chatbot
Certifications :
- IBM (Cognitive Class.ai) **:** Data Analysis with Python | Data Visualization with Python | Machine Learning with Python
- Udemy **:** AWS Essentials, AWS Concepts

WORK EXPERIENCE

SKADA Technology Pvt Ltd, Mumbai | *Intern*   **July 2018**
*Technologies used: **Python, C, Raspberry Pi***
- Implemented programs on Raspberry Pi & sensors such as DHT11 & PIR using *Python*.
- Created low cost home automation alternatives & Smart Lighting systems.

Shree Pratishthan NGO, Mumbai | *Head App Developer*   **Feb 2018 – April 2018**
*Technologies used: **Android Studio, Java, Firebase***
- Designed an Android application using *Android Studio* to increase the NGO's digital presence & enable effective communication between the NGO and its prospective customers. The app is live on Play Store with nearly 200 downloads.
- Included features such as a Gallery module & *Firebase* database for users.

ACADEMIC PROJECTS

Fyltr *Website*   **May 2020 – Present**
*Technologies used: **React, AWS, Python***
- Created a website & web extension using *React* to suggest charities to a user, depending on the nature of the news read by them.
- Made API calls to scrape current webpage text, extract keywords & generate suggestions.
- Currently developing a cross platform mobile application using *React Native* to maximize reach.
- Accepted into Mozilla's Incubator Open Lab program for Startups.

MathX – E Learning App *GitHub Link*   **Aug 2019 – Dec 2019**
*Technologies used: **Java, Firebase***
- Designed a Desktop application where students can learn how to create valid regular expressions.
- Implemented Agile methodologies, performed Unit testing and worked as a Scrum master, for the project.
- Used *JavaFX* 11 for the front-end, and *Firebase* DB to get real time results from the cloud.
- Added functionality for teachers to view students, track their progress and give them quizzes.

Stress Detection and Management using IOT & Machine Learning   **April 2018 – May 2019**
*Technologies used: **C, Java, Python, Arduino IDE, Android Studio***
- Detected stress using fundamentals of *IOT* and *Machine learning* with an accuracy of over 91%.
- Collected the heartbeat of a person using a heartbeat sensor and sent the data over to a server using a *NodeMCU* chip.
- Applied *KNN* classification algorithm on this data to detect whether the person could be in stress.
- Developed an *Android* application to show the results of the model, suggest remedies and help book appointments with local doctors.

Movie Recommendation System   **July 2017 – Oct 2017**
*Technologies used: **Python, Pandas, Scikit-Learn***
- Built a recommendation system using Collaborative Filtering, which suggests movies to a user based on their history.
- Determined similarity between existing users in the database & the current user through the Pearson Correlation Function.