# ATHARVA DESHPANDE

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## EDUCATION

**Master of Science, Computer Science |** Drexel University — Graduation: June 2021

**Bachelor of Engineering, Computer Engineering |** University of Mumbai — Graduation: May 2019

## TECHNICAL PROFICIENCY

**Languages:** C, C++, Java, Python, SQL, NoSQL
**Frameworks:** Tkinter, Flask, .NET v4.5, AngularJS, React-native, ReactJS
**Web Technologies:** HTML5, CSS3, Sass, Bootstrap v4, JavaScript, jQuery, REST API
**Software and Tools:** Visual Basic, Android Studio, Jupyter Notebook, VMWare, XAMPP, Oracle, PostgreSQL, Git, Microsoft Office
**Operating Systems:** Windows, Linux

## EXPERIENCE

**WISE(Women's Islamic Initiative in Spirituality & Equality) –** Front End Developer Intern — New York City, USA | Sep 2020 – Dec 2020

- Maintained and updated the current website using HTML and CSS to make it more intuitive which improved the user feedback.
- Worked on improving the Search Engine Optimization(SEO) of the website which improved its Google search engine rank by 4 places for its homepage making it the top result for some searches and an average of 5 places for other pages.
- Improved the intra-connectivity of the website by removing dead links and created a roadmap for the links in the website.
- Created an attractive and responsive art gallery for the website for freelance artists which improved the site visits by 25%.

**Trivia Softwares –** Project Intern — Mumbai, India | Jan 2019

- Evaluated experiments, extracted data, and designed a Management System based on the collected data.
- Created a dynamic splash screen by scraping data from a quote website using a python package called 'BeautifulSoup4'.
- Developed an application for 'Student Management System' that met the business and user goals, increasing user satisfaction by automating the student data handling process.
- Maintained SQL scripts, indexes, and complex queries for analysis and extraction.

## TECHNICAL PROJECTS

**Finger Gesture Recognition Using Web Camera And Linear Line Laser** (Using C) — Mumbai University | Aug 2018 - Feb 2019

- Developed a working model in C using external libraries for image processing which identified the number of fingers shown on the camera and did specified actions based on the gesture with 85% accuracy.
- Perceived that the salient features of this project are its simple but efficient working.
- Publication: Finger Gesture Recognition Using Laser Line Generator And Camera, International Research Journal of Engineering and Technology (IRJET) Volume 6, Issue 4, April 2019.

**E-Commerce Website**(Using ReactJS, HTML, CSS, JavaScript, Bootstrap) — Personal Project | Dec 2019 - Apr 2020

- Developed a responsive website using ReactJS on a phone store with an attractive user interface.
- Implemented a fully functional cart with options to increase/decrease the quanity in cart, remove an item, clear cart with responsive cart receipt.
- Included product details for improved user interaction and satisfaction.

**Food Donation Website** (Using HTML, JavaScript, Bootstrap, Python Flask, SQLite3) — Drexel University | Jan 2020 - Mar 2020

- Developed a responsive website using HTML5, CSS3, and Bootstrap on food donation with an attractive user interface.
- Implemented a signup/login functionality with a pop-up modal form.
- Connected user interface with SQLite database and handled the backend using Flask.

**Loan Prediction System** (Using HTML, JavaScript, Bootstrap, Python Flask, SQLite3, Python) — Drexel University | Jan 2020 - Mar 2020

- Developed a web-based loan prediction system using Python which was trained and tested with 918 total loan instances and used various machine learning classification algorithms to check the eligibility of the customer for a loan.
- Implemented various algorithms like Logistic Regression, Naïve Bayes, Decision Tree, Random Forest, and Support Vector Machine and selected the algorithm which gives the maximum accuracy.
- Accepted input from the user in a form, stored the data in a database in SQLite, and used the data to predict whether a user is likely to get a loan, with an accuracy of 80.61%.

**Image Classification using OpenCV - Kaleidoscope** (Using HTML, OpenCV, Python, Flask, SQLite) — Drexel University | Jan 2020 – Mar 2020

- Used OpenCV to convert the images from RGB to LAB color space, then compute the difference in value using CIE color space.
- Implemented K-Means clustering to create a cluster of top 10 colors, out of which a threshold of top 5 colors was set for filtering.
- Performed comparison on choosing a color, with the colors in the threshold and present the resulting images.

## PROFESSIONAL AFFILIATIONS

Computer Science Institute of Electrical and Electronics Engineers (IEEE) — 2019 – Present
Drexel University Institute of Electrical and Electronics Engineers Graduate Forum (DIG) — 2019 – Present