TRENA VINOD DHINGRA

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EDUCATION

Northeastern University, Boston, MA   Sep 2019 – Present
Khoury College of Computer Sciences   Expected Graduation: Aug 2021
Candidate for a Master of Science in Computer Science
Courses: Programming Design Paradigm, Algorithms, Database Management Systems, Artificial Intelligence.   GPA: 3.5/4.0
Vivekanand Education Society's Institute of Technology, University of Mumbai, India   June 2019
Bachelor of Engineering in Computer Engineering   GPA: 9.00/10.00
Courses: Soft Computing, Software Engineering, Data Mining, Operating Systems, Web Technologies, Machine Learning.
Vivekanand Education Society's Polytechnic, Mumbai, India   June 2016
Diploma in Computer Engineering   Aggregate Percentage - 87.19%

TECHNICAL KNOWLEDGE

Languages	: Java, Python, C++, C
Databases	: MySQL, Firebase, SQLite, Oracle 11g, MongoDB
Web and Mobile Technologies	: HTML, CSS, PHP, Bootstrap, JavaScript, React.js, Spring Boot, Hibernate, Node.js, Android
Cloud and Version Control	: Google Cloud Platform, Amazon Web Services (AWS), Git
Data Science	: Keras, Scikit-learn, Tableau

WORK EXPERIENCE

Software Engineering Intern - Eikon Therapeutics, San Francisco, USA   May 2020 – Jun 2020, Aug 2020 - Present
- Explored GUI options and gathered requirements for representing data to non-engineering-team end-users.
- Designed and implemented this python-based GUI using PySide2 for representing single molecule image data.

Software Engineering Intern – Aladdin Product Group, Blackrock, San Francisco, USA   Jul 2020 – Aug 2020
- Collaborated with customer support officers, traders, and engineers to redesign and build a support tool to optimize troubleshooting workflow which fetches and displays from billions of transactions.
- Developed and deployed this tool as a web-based application for orders and transactions that occur during the trading process using Node.js, React.js and Splunk.

PROJECTS AND PUBLICATIONS

CookBook – Northeastern University, Boston   Feb 2020 – Apr 2020
- Developed a React based web application where users can log in to the application to create, retrieve, update and delete recipes along with comment and user tagging features.
- Built Rest API using Node.js, Express.js and MongoDB and implemented a search feature using RapidAPI.

Prediction of user ratings for Airbnb Rentals - Northeastern University, Boston   Mar 2020 - Apr 2020
- Implemented and analyzed various classification algorithms for their performance based on different performance metrics like accuracy, area under ROC etc.

An Image Processing Application - Northeastern University, Boston   Nov 2019 - Dec 2019
- Created an MVC in Java that works on images and performs various operations such as blur, sharpen, sepia, grayscale, dither, and mosaic and a program around them complete with "image scripting" and an interactive graphical user interface.

Dyscalculia Detection Using Machine Learning - University of Mumbai, Mumbai   Aug 2018 – Apr 2019
- Developed an AI based system to assist doctors at the Department of Psychiatry, T.N.M.C and B.Y.L. Nair Ch. Hospital in detection of dyscalculia, a learning disability.
- Prepared a dataset and generated decision tree using Random Forest Algorithm to achieve 99.87% accuracy.
- Presented and published a paper at the 8th International Conference on Pattern Recognition and Machine Intelligence in December 2019 for LNCS series by Springer (https://doi.org/10.1007/978-3-030-34869-4_13).

Societino - University of Mumbai, Mumbai   Aug 2017- Feb 2018
- Developed an Android Application using Android Studio, Firebase, Google Maps API, JavaMailer API, and MSG91 which allows members of an apartment complex to communicate efficiently and handle any crisis that occurs.

ACTIVITIES

Grace Hopper Conference   Sep 2020
- Selected to represent Northeastern University trend Khoury College of Computer Sciences at the 2020 Virtual Grace Hopper Celebration of Women in Computing conference

Junior Public Relations Officer, Computer Society of India   Jul 2016 – Apr 2017
- Managed and coordinated several events as a part of the student council and used Photoshop to make posters showcasing several technical and non-technical events.