

Deepak Ghimirey
United States Citizen
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EDUCATION

Michigan State University

Lansing, MI

Bachelor of Science, Computational Mathematics and Data Science, minor Computer Science

Spring 2021

Relevant Coursework: CMSE 201, 202(Computational Mathematics Science and Engineering): Computational modeling using Pandas library in Python , STT 180: Introduction to Data Science using R Studio, CSE 331: Algorithms and Data Structures(Python), CSE 232: Intro to C++, MTH 451 and 452: Numerical Analysis I and II, CMSE 381: Fundamentals of Data Science Methods, CMSE 401: Methods for Parallel Computing, MTH 496 Capstone in Mathematics: Intro AI, CSE440: Intro to Machine Learning, STT 441 and STT442: Probability and Statistics I, II: Probability, Calculus: I,II,III,IV.

SKILLS

Software: MS Word, PowerPoint, Excel, Python, C++, R Studio, HTML, CSS, SQL, MATLAB, Machine Learning.

Personal Websites: <https://deepak768.github.io/Website/deepak.html?fbclid=IwAR1qRJOn6aRGoa3-K5RvanpDcey3MRxobcyZ00qEyggfU8Q--VkRaeDFE#home>. (created to learn about HTML and CSS)

Communication: Proficient in English, Hindi and Nepali.

ACADEMIC PROJECT EXPERIENCES

Implementation of Housing data sets, cereal data sets, wine data sets, Olympic medals data sets

Spring 2020

- Used linear regression, gradient boosting, and random forest to get the best fit and get the most accurate result.
- Develop a model, based on linear regression, of some of the cereal properties and their rating.
- Get some basic experience with Image Processing using panda's library.
- working with the wine dataset and building a k-nearest neighbors classifier class
- working with the data of Olympic medals won by Team USA. Learned about sorting data in a data frame, building and evaluating a logistic regression model, and writing python classes.
- Worked with Flint, MI water crisis data sets to see the effect of iron level using quantitative analysis with R Studio.

Programming projects:

Fall 2017 – Spring 2021.

- Intro C++: https://github.com/Deepak768/MSU_CSE_232
- CSE 331: Algorithms and Data Structures (Python Linear data structures, trees, graphs, and algorithms which operate on them. Fundamental algorithms for searching, sorting, string matching, graph problems. Design and analysis of algorithms.

PROFESSIONAL AND VOLUNTEER EXPERIENCE

Math Teaching Assistant:

Aug. 2019 – present

- Teach at recitation.
- Meet students for 10 hours/week.
- Tutor
- Grade quizzes and exams
- Proctor exams

Blue Cross Blue Shield of Michigan:

Summer 2020

- Cancelled due to Covid-19.

Pharmacy Technician:

June 2018– 2019

- Accepting written prescriptions or refill requests from patients and evaluating information for completeness and accuracy.
- Recording medical histories while maintaining confidentiality and compliance with HIPAA regulations.
- Counting prescription medication, filling prescriptions, and typing and attaching medication labels.
- Performing inventory audits and purchasing supplies and medication. And Process patient insurance.

Sparrow Hospital

Lansing, MI

Student Volunteer, Department of Oncology

June 2016 – Aug 2018

- Assisted nurses and medical staffs with filling up supplies and general housekeeping/cleaning activities.
- Accommodated patient needs by escorting them to their relatives, making sure they had all essential supplies, and monitoring their health conditions in the waiting room.
- Worked as part of a diverse group of healthcare team to promote healthy behavior and awareness.

ESL Tutor at Everett High School, 4 hours/week

Fall 2015- 2017.

- Helped International students with their homework for Math, Science, History and English
- Translated for Nepali students