

Prerna Bhavsar

(858) 214-7112 | pbhavsar@ucsd.edu | www.linkedin.com/in/prernabhavsar | github.com/PrernaBhavsar | prernabhavsar.github.io

Education

University of California, San Diego

March 2021-December 2022 (Expected)

- Masters of Science in Computer Science.
Relevant Courses: Advanced Statistical NLP, Big Data Science and Knowledge.

Dwarkadas J Sanghvi College of Engineering, University of Mumbai

August 2016-October 2020

- Bachelor of Engineering, Computer Engineering.
Relevant Courses: Algorithms, Advanced Algorithms, Data Structures, Machine learning, Artificial Intelligence, Natural Language Processing, Web Technologies, Operating systems, Database management, Software Engineering.

Skills

Languages: C, Java, Python

Web Development: HTML, CSS, JavaScript

Database Technology: MySQL, PHP

Operating Systems: Windows, Ubuntu

Miscellaneous: AWS, RDS, Algorithms, Data Structures, Machine Learning, Deep Learning, Natural Language Processing

Experience

Graduate Teaching Assistant – Halicioglu Data Science Institute, UC San Diego

March 2021-Present

- Assistantship for the course DSC 190 Introduction to Machine Learning under the supervision of Prof. Justin Eldridge.

Software Developer - Data Science – Pivony

July 2020-October 2020

- Contributed towards the backend python development by working on AWS EC2 instances, S3 buckets, and RDS.
- Maintained Docker containers for multiple pipeline applications in the AWS instances.
- Deployed various pre-processing enhancements and Rest APIs for TopicScope.
- Worked on enhancing the LDA topic-modeling algorithm as well as finding newer solutions.
- Implemented applications of data science like topic labeling, parameter enhancements for its product TopicScope.

Web Developer Intern – Chilsag Entertainment Network

June 2018-August 2018

- Maintained the company's website as well as worked on a new client project's front-end development.
- Contributed towards the development using WordPress, HTML, CSS, and JavaScript.

Academic Projects

Online Food Delivery Website

- Tech Used:* HTML, CSS, JavaScript, JQuery, Django, Python
- The website's front page describes the various services offered by them. It included different restaurants to choose from and cart for ordering which displays the total bill for the customers.

Railway Management System

- Tech Used:* Java, Netbeans, MySQL
- It is a database management project, which provides a desktop application where a user could choose from a range of trains by providing their desired source and destination. Further, they can make their booking and check the status using their user details.

Automating the Generation of ICD Codes from Medical Records

- Tech Used:* Python, Deep learning algorithms, NLP
- The project uses CNN along with LSTM for textual understanding and further generation of the codes. ICD codes are the codes assigned to medical summaries based on diagnoses and procedures performed.

Student Academic Performance Prediction

- Tech Used:* Python, Machine Learning algorithms
- A Machine Learning model to predict student performance based on their class activities, tests and personal features like parental involvement using Support Vector Machine (SVM) and Neural Network algorithms.

Student Information System

- Tech Used:* Java, Netbeans, MS Access Database, Access Drivers
- Storing the student data like personal information and marks for different semesters. The students can create their own profile by sign-up and then can login to provide the different information.

Research Publications

P Bhavsar, P Jhunjhunwala, L D'Mello. *Attribute Reduction for Medical Data Analysis using Rough Set Theory* is published in Springer Book series "Algorithms for Intelligent Systems (AIS)" on May 7, 2020 with ISSN-2524-7565.