# Prerna Bhavsar

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## Education

**University of California, San Diego**                                                    **March 2021-December 2022 (Expected)**
- Masters of Science in Computer Science.

**Dwarkadas J Sanghvi College of Engineering, University of Mumbai**               **August 2016-October 2020**
- Bachelor of Engineering, Computer Engineering.                                               **GPA: 9.72/10**
  *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, 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.
- Working under the supervision of Prof. Justin Eldridge.

**Junior Data Scientist** – *Pivony*                                                    **July 2020-October 2020**
- 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.
- Contributed towards the python development of the platform by working on AWS EC2 instances, S3 buckets, and RDS.
- Deployed various pre-processing enhancements and Rest APIs for 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.

## Selected 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.

## 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.

## Leadership and Teamwork Experience

**Jt. Secretary** – *DJLIT, the Literary Society of DJ Sanghvi*                          **October 2018-September 2019**
- Organised and managed all the events held under its banner.
- Responsible for all the paperwork and assignment of tasks to the juniors in the committee.

**Volunteer** – *National Service Scheme*                                              **July 2017-July 2018**
- Worked as Volunteer and a co-committee member of the editorial team of DJNSS.
- Certificated for successfully completing 120 hours of social service.