

Neel Suthar

neel.suthar@mavs.uta.edu | +1(469) 655-1440 | | [linkedin.com/in/neel-suthar/](https://www.linkedin.com/in/neel-suthar/) | neel-suthar.github.io/myportfolio/

EDUCATION

Master of Science, Computer Science

Jan 2020 - Dec 2021

The University of Texas at Arlington

GPA: 3.85

Bachelor of Engineering, Computer Engineering

Aug 2015 - May 2019

Gujarat Technological University

GPA: 8.14/10

SKILLS

Programming Languages: Python, Java, JavaScript, PHP, C/C++

Web Development: Python Flask, Django, React, Redux, HTML, CSS, Bootstrap, Bulma, JQuery, Laravel, WordPress, Node.js, Express.js, Spring framework, Passport.js, REST APIs, Apache Kafka, GraphQL

Database: SQL (MySQL, Microsoft SQL server), NoSQL (MongoDB, Redis)

Cloud/DevOps: Git, Heroku, IBM Bluemix, AWS(Amazon Web Services), MS Azure, Docker, JUnit, JMetre, PyUnit

Data Science/Analytics: NumPy, Scikit-Learn, Pandas, Matplotlib, Tensorflow, Seaborn, PyTorch, NLTK, OpenCV, Tableau, Keras

Other: Windows, Unix/Linux Platform, Microsoft Office, Object-oriented programming, Problem-solving, Test-driven development, Software Design patterns, Agile development methodology, Software development lifecycle

EXPERIENCE

Graduate Teaching Assistant/Webmaster, The University of Texas at Arlington

Jan 2021 - Present

- Managing and updating the potential information for a website of the Department of Marketing, College of Business.
- Helping department faculties and Ph.D. students in their day to day tasks and assessing any technical issues.
- Maintaining the electronic devices and other kinds of resources provided to faculties and students via department.

Software Developer, Writopedia Consultants Pvt. Ltd.

May 2019 - Oct 2019

- Designed and implemented a database to keep track of the most liked articles of various hot topics for SEO purposes.
- Developed many blog-post-oriented pages for websites using React.js, Flask, Django, HTML, PHP, and WordPress API.
- Built a PoemDiary app for iOS with an authentication feature for privacy using Expo and React Native framework.

Machine Learning Intern, eInfoTechs IT Solution

Aug 2018 - Apr 2019

- Reduced training time by developing custom functions to clean and process data gathered from the various dataset.
- Trained various ML models for sentiment analysis of tweets, animal detection, and signature extraction from a document.
- Developed and deployed ML web apps related to brain tumor detection, motion detector, and crowd control on AWS.

Web Developer, Divine IT Hub

Jan 2018 - Jun 2018

- Built custom reusable, responsive, and intuitive components single-handedly using scalable framework React.js.
- Improved consistency of existing apps by replacing commonly used fields with attractive reusable components.
- Enhanced existing database functionalities by implementing backend services using Node.js to be used with many apps.

PROJECTS

Rating Predictor on Game Review (Python, NumPy, Pandas, SVM, sklearn, Python Flask, AWS EC2)

- Developed a Flask app to predict the rating of a given review on a scale of 1-10 and deployed it on AWS EC2 instance.
- Developed a function to clean and format the reviews and ratings from a BoardGameGeek Reviews(13m) dataset.
- Vectorized reviews using sklearn TfidfVectorizer for model training and normalized their ratings to gain better accuracy.
- Trained the data using sklearn LinearSVC then saved the model as well as vectorizer using pickle to use for prediction.

Movie Recommendation System (Python, Pandas, NumPy, The Movies Dataset)

- Built a system to recommend several movies to a user based on their input movie with help of The Movies Dataset.
- Developed a logic to identify and convert unique genres, cast, and crew information into binary format for each movie.
- Built a distance function to calculate the similarity scores between two movies using genres and cast information.
- Developed kNN from scratch using distance function to get neighbors based on similarity; got highly accurate results.

Object Counting on webcam Object Detection (Python, keras, TensorFlow, OpenCV, pandas, YOLOv3)

- Trained object detection model with the help of MS COCO dataset using YOLOv3 object detection system and Keras.
- Created image processing steps to prepare an image for prediction using Keras and used Matplotlib to display output.
- Built a logic to process the live webcam feed for prediction, identifying objects, and bounding boxes in a live frame.
- Made detection process easy by using classes array to identify specific objects in a frame; can be tweaked easily.

kNN classifier from scratch (Python)

- Built kNN classifier from scratch with different distance measures and custom data cleaning, preprocessing functions.
- Applied kNN on breast_cancer, car, and hayes_roth dataset and was able to achieve higher accuracy than WEKA.