

Neel Suthar

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EDUCATION

Master of Science, Computer Science

The University of Texas at Arlington

Jan 2020 - Present

GPA: 3.85

Bachelor of Engineering, Computer Engineering

Gujarat Technological University

Aug 2015 - May 2019

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

Certification: Microsoft HTML5 Application Development Fundamentals, Spring Framework Masterclass (In progress), Spring & Hibernate (In progress)

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.
- Integrated many iOS apps made using Expo and React Native framework with an authentication feature for privacy.

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

Volunteering Management System (JAVA, Spring Boot, React, Bootstrap, HTML)

- Developed a system where students can apply for volunteering under professor on their department's approval.
- Designed the database and created API to serve the data on React front-end and added authentication using Spring Boot.
- Designed and created dashboards for users such as students, professors, department admin and admin using Bootstrap.

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

- Developed a Flask app to predict the rating(scale of 1-10) of a given review using the BoardGameGeek Reviews dataset.
- Developed a logic to clean, format, normalize, and vectorize the reviews using Pandas, TfidfVectorizer for model training.
- 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.
- 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 processing steps to prepare an image & live webcam feed for prediction and identifying objects in a live frame.

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.

Covid Cases (Java, Spring, Thymleaf, Bulma)

- Developed a [web app](#) using Java & Spring Boot which shows confirmed covid cases as of today and changes in cases.

Daily Stars-APOD (React, JavaScript)

- Built a web app that display astronomy picture of a day using NASA-apod API, deployed it using [Heroku](#).