

# Divyesh Chopparapu

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## EDUCATION

### University of Texas at Dallas

Dallas, Texas

Master of Science in Software Engineering(MSSE)

Aug 2023 - May 2025

**Relevant Coursework:** Database Design, Advanced Algorithms, Big Data Management and Analysis, Software Testing Validating, Advance Requirements Engineering, Natural Language Processing

### SRM University

AP, India

Bachelor of Engineering (Hons.) in Computer Science

Aug 2019 - May 2023

**Relevant Coursework:** Software Engineering, Computer Networking, Database Management Systems, Operating Systems, Cryptography, Object Oriented Programming

## SKILLS

**Languages:** Python, C, C++, Java, SQL, JavaScript, HTML/CSS, React JS, Flutter

**Software/Tools:** Git, Docker, Kubernetes, Linux, AWS, Hadoop, Shell, Mongo DB, Spark, Postman

**Models:** PyTorch, TensorFlow, Pandas, Seaborn, NumPy, Matplotlib

## EXPERIENCE

### CS Outreach

Dallas, Texas

Student Assistant | Python, Flask, Django, Machine Learning

Feb 2024 - Present

- Instructed over 80 students in programming languages- Python, Advanced Python, and JavaScript, with a focus on high school workshops.
- Created a supportive and interactive learning atmosphere, leading to a notable improvement in student engagement and learning outcomes.
- Build a Social Media App using HTML, CSS, Bootstrap, SQLite, Python Framework- Django.

### Shape AI

Hyderabad, India

Software Engineering Intern | Python, React JS, JavaScript

June 2021 - Sept 2021

- Utilizing the MERN Stack(MongoDB, Express JS, React JS, Node JS), developed a clone for the BookMyShow Website.
- Worked on a project to design similar to the food delivery website called Zomato. The website's front end is designed using React JS, Node JS, and JavaScript.
- Worked and improved small-screen view and large-screen view that helped the users to open the website on computers and smartphones.

## PROJECTS

### Blind People Navigation App| Kotlin, Git, JavaScript

Feb 2024 - May 2024

- Engineered a Navigation app tailored to the needs of the visually impaired, offering them accessible tools for safe and independent mobility.
- Incorporated the functional requirements and non-functional requirements like Safety, Reliability, user-friendliness, and usability.

### Web Search Engine| Python, Machine Learning, Facade, GitHub

Aug 2023 - Dec 2023

- Developed A robust web search engine, showcasing expertise in information retrieval, crawling, and indexing.
- Implemented by using Implicit Invocation architecture and added Daemon to run tasks.
- User-friendly interface with Autosuggestions and spell Correction features, achieving an accuracy rate of 89%.

### Show and tell: Neural Image Caption Generator | Python

Jan 2022 - May 2022

- Built a prototype image captioning architecture that generates a caption with the highest likelihood of the target description by utilizing the Flickr8k dataset.
- Pre-processed the input image dataset which is fed to a pre-trained Convolutional Neural Network model VGG 16 for image encoding and implemented Long Short-Term Memory(RNN Module) Architecture to produce the output text.
- Performed iterative magnitude-based pruning to prune the encoder model using predefined sparsity ratios and concluded the maximum sparsity ratio to be 78%.

### Breast Cancer Prediction| Python, Matplotlib

Sept 2021 - Oct 2021

- Engineered a machine to predict if a person has breast cancer and if the person has cancer, it will specify the type of cancer by taking RMI scans as inputs.
- The models used are Logistic regression, decision Tree, and Random Forest classifier to predict Breast Cancer.
- Models' decision tree, and Random forest classifiers gave of accuracy rates 97% and 95% and to test model accuracy on test data, we used a confusion matrix.

### Online E-Voting System | HTML, JavaScript, CSS

Feb 2021 - April 2021

- Developed a system where the users can cast votes securely and store them in a central repository.
- Designed a notification system to notify the users based on their location and embedded a chatbot built with Keras(Deep Learning Library) and NLTK(NLP Library).