Divyesh Chopparapu

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EDUCATION

Master of Science in Computer Software Engineering(MSSE)
University of Texas at Dallas *Aug 2023 - May 2025*
Relevant Coursework: *Advanced Algorithms, Database Design, Big Data Management and Analysis, Software Testing Validating, Advance Requirements Engineering, Natural Language Processing, Computer Vision*

Bachelor of Engineering (Hons.) in Computer Science
SRM University *Aug 2019 - May 2023*
Relevant Coursework: *Software Engineering, Database Management Systems, Data Structures and Algorithms, Object Oriented-Programming, Computer Networking, Operating Systems, Cryptography*

SKILLS

Languages: Python, C, C++, Java, C#, PHP, SQL, JavaScript, HTML/CSS, Go, PySpark
Software/Tools: Git, Docker, Kubernetes, Linux, AWS, Hadoop, Shell, Mongo DB, Postman, Kafka
Frameworks/Libraries: React JS, PyTorch, TensorFlow, Pandas, Seaborn, NumPy, Matplotlib, Flask, Django

EXPERIENCE

The University of Texas at Dallas *Dallas, Texas*
CS Student Assistant | *Python, Java, Flask, Django, Machine Learning* *Feb 2024 - Present*
- Instructed high school students in Python, Advanced Python, and JavaScript, enhancing their programming skills through engaging and interactive workshops.
- Created a supportive and interactive learning environment that significantly improved student engagement and learning outcomes.
- Guided students in building a social media app using HTML, CSS, SQLite, and Django, enhancing their hands-on experience.

Shape AI *Hyderabad, India*
Software Engineering Intern | *Python, React JS, JavaScript, NoSQL* *June 2021 - Sept 2021*
- Developed a BookMyShow Clone using the MERN stack, integrating user-friendly UI with robust backend services.
- Worked on a responsive front end for a Zomato food delivery site using React JS, Node JS, and JavaScript, ensuring intuitive design and seamless navigation.
- Optimized performance and scalability, including Mongo DB queries, Node JS load balancing, and React JS responsiveness for seamless multi-device user experience.

PROJECTS

Blind People Navigation App| *Kotlin, Git, JavaScript* *Application Design Project*
- Design 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* *Software Architecture Project*
- 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, Flickr8k dataset* *Machine Learning Project*
- 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* *Machine Learning Project*
- Engineered a machine learning model to predict breast cancer presence and classify cancer type based on RMI scans as inputs.
- The models used are Logistic regression, decision Tree, and Random Forest classifier to predict Breast Cancer.
- The decision tree and Random Forest classifiers achieved 97% and 95% accuracy rates, respectively. Model performance was evaluated using a confusion matrix.

Online E-Voting System | *HTML, JavaScript, CSS, NLTK* *Full-Stack Project*
- 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 and NLTK.