# Shreyash Dilip Thakare

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## EDUCATION

**University of Texas at Arlington,** *Arlington, TX* **Aug 2023 - Present**
Master of Science in Computer Science

Related Courses: Analysis of Algorithms, Artificial Intelligence, Machine Learning in Data Science, Robotics, Database Systems, Web Data Management, Distributed Systems.

**Yeshwantrao Chavan College of Engineering,** *Nagpur, MH* **Aug 2019 - May 2023**
B. Tech in Computer Technology

## SKILLS

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|---|---|
| **Programming Languages** | Python (Proficient), JavaScript (Intermediate), C++, C, HTML/CSS (Proficient), SQL. |
| **Frameworks/Others** | React (Proficient), Node (Proficient), Django(Beginner), MongoDB (Proficient), Git, MySQL, JSON, REST APIs, Pandas, NumPy, gRPC, Matplotlib, Selenium. |

## WORK EXPERIENCE

**Software Engineer Intern**, *Stralto Global Pvt. Ltd.* **Jan 2023 - Aug 2023**

- Spearheaded a comprehensive UI overhaul for Stralto Global's EHS Software, Clide Analyzer, utilizing JavaScript and ReactJS; revamped user interface elements to enhance usability and visual appeal, leading to a 30% decrease in user error rates.
- Administered seamless API integrations, ensuring smooth communication between the frontend and backend of Clide Analyzer Software reducing response time by 15%.
- Engineered the seamless integration of a chatbot tool into the software platform, enabling customers to efficiently navigate tool functionality; resulted in a 30% reduction in customer support queries.
- Coordinated with a team of 5 developers using Git, resulting in a 15% reduction in code conflicts and a 20% increase in project completion speed.

**Web Development Intern**, *The Sparks Foundation* **Dec 2021 - Feb 2022**

- Designed and implemented a secure and efficient payment gateway integration for the company's website, enhancing the online transaction process.
- Demonstrated proficiency in working with APIs to establish seamless communication between the website and payment processing systems, ensuring smooth financial transactions.
- Improved the overall user experience by creating an intuitive and user-friendly payment process, resulting in increased customer satisfaction and successful transactions.

## PROJECTS

**Semantic Movie Search**

- Cleaned and prepared IMDb dataset using Python and Pandas, ensuring data quality through handling missing values and standardizing text columns.
- Engineered semantic search functionality by applying advanced NLP techniques, including transformer models for tokenizat ion and embedding; reduced search query resolution time by 40% and improved search accuracy by 25%.
- Implemented a user-friendly web application using Streamlit and Docker, allowing users to search for movies based on semantic similarity.
- Led end-to-end project implementation, from data acquisition to deployment, showcasing comprehensive skills in data science, NLP, web development, and Docker containerization.

**Twitter Sentiment Analysis using Deep Learning**

- Developed CNN and BERT models for Twitter sentiment analysis, achieving 83.09% and 76.63% accuracy respectively on Sentiment140.
- Integrated Sentiment140 with Smile Twitter Emotion dataset and used pre-trained Word2Vec embeddings for enhanced model performance.
- Applied L2 regularization and dropout to prevent overfitting, optimizing model accuracy and generalization.
- Conducted detailed comparative analysis of CNN and BERT, providing insights on model performance through evaluation metrics.

**Road Condition Monitoring System**

- Designed a real-time road monitoring application by incorporating smartphone gyroscopes and accelerometers for accurate pothole detection, reducing costs.
- Performed comprehensive data analysis to visually map pothole locations with impact intensity, translating sensor data into actionable insights to enhance navigation and safety.
- Utilized a technology stack including Dart, Flutter, to create a seamless and visually appealing user experience.
- In the future, integrating this project with Google Maps could aid in decreasing pothole-related accidents by roughly 11% through the display of road conditions directly on the map.