SAICHARAN KOTEKAL

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TECHNICAL SKILLS

- **Programming Languages-** Java, Javascript, Python, HTML, CSS, C/C++, SQL
- **Databases**- MongoDB, MySQL, Oracle, PostgreSQL.
- **Technologies and skills**- Machine Learning, React JS, Angular, Spring, Spring Boot, Node Js, RestfulAPI, AWS, Deep Learning, Git, Github, Thymeleaf, Selenium, Scikit-learn, Oops(Advanced), Problem-solving skills, software engineering, SDLC, Tensorflow, Excel, Peoplesoft Oracle, Data Structure Algorithms, Data Analysis, Linux

PROFESSIONAL EXPERIENCE

FLORIDA STATE UNIVERSITY   **Tallahassee, FL**
Graduate Research Assistant   **Aug 2024- present**
Social workers in the library: An assessment of hiring and evaluative measures

- Created a high-performance web scraping system with **Scrapy**, **Selenium**, and **Python**, implementing real-time data streaming and leveraging **PostgreSQL** for robust, relational data storage, boosting data accuracy by 20% in library hiring trends analysis
- Applied advanced **Natural Language Processing (NLP)** techniques (Named Entity Recognition, Topic Modeling, Sentiment Analysis) using spaCy and NLTK, alongside a TensorFlow-based machine learning model, achieving 85% accuracy in hiring trend predictions and improving hiring process efficiency by 30%

ACCENTURE   **Chennai, India**
AdvancedApplication Engineering Analyst   **Aug 2022- Aug 2023**
Java Full Stack Developer

- Used **Agile** methodology and actively participated in Scrum meetings to produce with quality within time.
- Created RESTful APIs to integrate front-end elements with back-end systems.
- Proficient in UI design, developed Front End using **HTML5, CSS3, JavaScript, ReactJS, NodeJS,** and **JQuery** while also designing and implementing applications through technologies such as **Spring framework(MVC, IOC, AOP, Transactions, Annotations)**
- Hands-on experience with **Core Java** with **Multithreading, Concurrency, File Handling I/O, Data Structures and Collection, Garbage Collection.**
- Used design patterns like **Composite View, Singleton, Data Access Objects, Factory,& MVC patterns.**
- Experience in developing **Microservices** using **Spring Boot**, enhancing system scalability, and reducing deployment time by 15%.
- Expertise in database modeling and development using **RDBMS (Oracle, MySQL) and NoSQL (MongoDB)**, increasing query performance by 20%.
- Experience in using **version control** tools like **GIT and Maven** for build automation.
- Designed and developed OTP authentication in the application using **Spring Security and Spring**
- Developed and executed testing strategies using **JUnit and Selenium**, enhancing application reliability by 40% and reducing production bugs by 25%.

CODE QUEST   **Vellore, India**
SQL Developer Intern   **Mar 2021- May 2021**

- Extracted and collected data for essential reports, utilizing **SQL** scripts to ensure efficient data management and accuracy, leading to a 30% improvement in reporting efficiency.
- Created and optimized SQL queries, generating reports documenting database changes and performance metrics, cutting query execution time by 25% and saving 10 hours weekly.

PROJECTS

Social Distance Monitoring

- Built a real-time social distancing monitoring system using a fine-tuned **YOLOv4** for person detection, a centroid tracking algorithm, and **DeepSORT** techniques with **CNN** for tracking individual movements, reducing close contact instances by 45% and ensuring compliance with safety protocols.

Fake News Detection

- Implemented machine learning algorithms **(Naive Bayes, SVM, Neural Networks, LSTM)** for Fake News Detection, achieving 92% accuracy on a dataset of 20,000 articles by optimizing feature extraction (TF-IDF, Word2Vec) and hyperparameters, and conducted performance analysis using a confusion matrix.

EDUCATION

FLORIDA STATE UNIVERSITY   **Tallahassee, FL**
Master of Science in Information Technology   **Aug 2022- May 2025**

- Coursework: Website Development & Management, Data Analytics, Software Engineering, Management Information Organization, Object-oriented programming, Computer Science-BioInformatics, Usability Analysis

VELLORE INSTITUTE OF TECHNOLOGY   **Vellore, India**
Bachelor of Technology   **July2018- May 2022**

- Achieved a 3.96 CGPA in my Undergraduate verified achievement from World Education Services.