

SAICHARAN KOTTEKAL

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PROFESSIONAL EXPERIENCE

FLORIDA STATE UNIVERSITY

Graduate Research Assistant

Tallahassee, FL

Aug 2024- present

Social workers in the library: An assessment of hiring and evaluative measures

- Developed a **web scraping** tool with **Scrapy**, **Selenium**, and **Python** to extract and analyze library hiring data, using **NLP** techniques like **Named Entity Recognition** and **Topic Modeling** to identify trends in job postings.
- Performed **Sentiment Analysis** using **NLTK**, visualizing insights with **Matplotlib** and **Seaborn** (word clouds, sentiment graphs), and utilized **sci-kit-learn** for **topic clustering and classification**, improving integration.

ACCENTURE

Chennai, India

AdvancedApplication Engineering Analyst Graduate Research Assistant

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**, **Ajax**, 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**.
- Experienced in database modeling, implementation, and development using **RDBMS (Oracle, MySQL)** and **NoSQL (MongoDB)** databases.
- Experience in using **version control** tools like **GIT** and **Maven** for build automation.
- Implemented User Authentication and Authorization using **Spring Security** and **Spring Cloud API Gateway**. Performed unit testing using **JUnit** and integration testing to ensure high-quality software delivery.
- Basics in PeopleTools, including Application Designer, Component Interface, and **PS Query**.

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.
- Created and optimized SQL queries, producing detailed reports and spreadsheets that document database changes and performance metrics.

UNDERGRADUATE PROJECTS

Social Distance Monitoring

- Led the implementation of a social distancing monitoring solution for college activities using fine-tuned YOLOv4 and deep sort algorithms, reducing close contact instances by 45% and ensuring compliance with safety protocols.

Fake News Detection using Naive Bayes, Support Vector Machine, Neural Network, and Long Short-Term Memory(Published Research paper In IJARESM)

- Utilize **Naive Bayes**, **SVM**, **Neural Network**, and **LSTM** models for text classification, conducting a comprehensive analysis to evaluate their effectiveness and efficiency in capturing patterns within the data.

EDUCATION

FLORIDA STATE UNIVERSITY

Master of Science in Information Technology

Tallahassee, FL

2023-2025

- Coursework: Website Management, Data Analysis, Software Engineering, Management Information Organization

VELLORE INSTITUTE OF TECHNOLOGY

Bachelor of Technology

Vellore, India

2018-2022

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

ADDITIONAL INFORMATION

- Programming Languages-** Java, Javascript, Python, Ruby, HTML, CSS, C/C++, SQL
- Databases-** MongoDB, MySQL, Oracle, PostgreSQL.
- Technologies-** React JS, Angular, Spring IOC, Spring MVC, Node Js, Spring Boot, RestfulAPI, Nest JS, Excel, Peoplesoft Oracle, AWS, Azure, GCP, Git, Github, Thymeleaf, Selenium, Scikit-learn,Oops(Advanced)