SAICHARAN KOTEKAL

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TECHNICAL SKILLS

- **Programming Languages:** C, C++, Java, JavaScript, Python, HTML, CSS, SQL, NoSQL, Go
- **Frameworks and Tools:** Spring, Spring Boot, ReactJS, Django, Numpy, Pandas, Scikit-learn, TensorFlow, Thymeleaf, Node.js, Angular, RestfulAPI, Git, Maven, Docker, AWS, Selenium, GitHub, Excel, JQuery, JSP, Bootstrap
- **Database**: MySQL, MongoDB, PostgreSQL
- **Other:** OOPs concepts, Data Structures Algorithms, Linux kernel, MVC, Amazon Web services

PROFESSIONAL EXPERIENCE

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

- Conducted research and built a high-performance web scraping system using Scrapy, Selenium, and Python, improving data accuracy by 20% through real-time data streaming and robust PostgreSQL storage.
- Applied advanced Natural Language Processing (NLP) techniques, including Named Entity Recognition, Topic Modeling, and Sentiment Analysis, using spaCy and NLTK.
- Implemented a TensorFlow-based machine learning model, achieving 85% accuracy in hiring trend predictions and enhancing hiring process efficiency by 30%.

ACCENTURE   **Chennai, India**
Software Engineering (Full–time)   **August 2022 – August 2023**
Java Full Stack Developer

- Used Agile methodology and actively contributed to Scrum meetings to produce with quality within time.
- Full Software Development Life Cycle (SDLC) experience in Analysis, Design, Development, Implementation, Testing, and Maintenance.
- Extensively worked on developing the front end of a banking application using HTML5, CSS3, JavaScript, ReactJS, & JQuery.
- Led the development of web applications using Spring Boot, and REST with Spring MVC architecture using various technologies: React JS, HTML 5, Core Java, Bootstrap, SQL Server 2008 R2, JPA, and Hibernate.
- Utilized Spring framework in Java to design to implement low-latency REST APIs with Azure SQL Server as storage systems to facilitate efficient data retrieval and manipulation for scalable web applications.
- Architected Microservices using Spring Boot to enhance system scalability, streamline processes, and reduce deployment time by 15%, improving overall system efficiency and performance.
- Collaborated with cross-functional teams, including product managers, designers, and QA, to implement features that enhanced product delivery time by 15% and increased user satisfaction by 20%.
- Designed and implemented a system to track user actions on suspicious login emails using Google Cloud Platform.
- Expertise in database modeling and development using RDBMS (MySQL) and NoSQL (MongoDB), increasing query performance by 20%.
- Experience in using version control tools like GIT and Maven for build automation.
- Improved OTP authentication with Spring Security, cutting issues by 30% and boosting security.
- Enhanced 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)   **March 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

- Oversaw the construction of 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

- Led the Implementation of 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 (3.95 GPA)   **August 2022 – May 2025**

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

VELLORE INSTITUTE OF TECHNOLOGY   **Vellore, India**
Bachelor of Technology   **July 2018 – May 2022**

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