# Samyak Rokade

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## EDUCATION

**University of Texas at Dallas,** Richardson, TX — August 2022 - May 2024
Master of Science, **Computer Science (Data Science)** — GPA**: 3.95/4**
**Relevant Coursework**: Object-oriented analysis and design, Big Data Management and Analysis, Machine Learning.

**University of Mumbai,** Mumbai, India — **GPA: 9.25/10**
Bachelor of Engineering, **Electronics and Telecommunications** — August 2018 - May 2022
**Relevant Coursework**: Structured Programming Approach, OOP using Java, Data Compression and Encryption, Digital VLSI Design.

## TECHNICAL SKILLS

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| **Languages:** | Python, C, C#, C++, Java, JavaScript, HTML, CSS, R, VHDL |
| **Tools & Frameworks:** | Nodejs, ASP.NET, Spring Boot, Git, Hadoop, GCP, AWS, Kafka, AJAX |
| **Libraries:** | React.js, Express.js, jQuery, Spark |
| **Database Technologies:** | MySQL, MongoDB, PostgreSQL |

## PROFESSIONAL EXPERIENCE

**Nidaan Systems Inc, *Junior Solution Analyst*** — Dallas, TX
Technology Stack: C#, ASP.NET, Groovy, JavaScript, MySQL — May 2024 - Present

- Developed, deployed, and maintained customized software solutions for over 10 law firms, enhancing cloud integration for business processes such as Intake, Conflicts, Walls, Terms, and Time management.
- Authored and optimized ETL pipelines, using REST APIs and SQL queries to extract, transform, and streamline data from databases, implementing synchronous and scheduled processes to improve operational efficiency and reduce data processing time by 30%.

**Nidaan Systems Inc*, Junior Solution Analyst Intern*** — September 2023 – May 2024

- Engineered over 100 processes leveraging Boomi, Intapp, and REST APIs, streamlining data extraction, transformation, and integration processes to meet client-specific requirements.
- Actively contributed to multidisciplinary teams, integrating diverse technologies and frameworks to create efficient workflows, enhancing system functionality, and developing user-friendly forms for clients and partners, resulting in a 25% increase in user satisfaction.

## ACADEMIC PROJECTS

**Chatbot for Question Answering** — February 2024 – May 2024
**Technology Stack: Python, Pytorch, NLTK, SpaCy and Transformers**

- Designed a Chatbot using Google T5-FLAN architecture from Hugging face to answer questions related to footballer Lionel Messi's life, achieving a train loss of 0.1 and a validation loss of 0.07.
- Expanded initial dataset of 60 data points to 3200 by scraping online quizzes and employing API-based paraphrasing, achieving Rouge-1 score of 0.45, Rouge-2 score of 0.26, Rouge-L score of 0.37, and Rouge-Lsum score of 0.38.

**Road Traffic Prediction** (Github) — November 2023 - December 2023
**Technology Stack: Python, Sklearn, Matplotlib and Seaborn**

- Benchmarked a Custom Gradient Boosting Algorithm, yielding 0.98 accuracy versus Logistic Regression (0.90 accuracy) and KNN (0.96 accuracy).
- Conducted multiclass evaluation for the model, generating precision, recall, and F1-score metrics with a 97% classification rate for low, normal, high, and heavy traffic situations.

**Stocks and Trend Forecasting (Github)** — November 2023
**Technology Stack: Python, PySpark, TensorFlow, Matplotlib and Seaborn**

- Conceptualized a system for data preparation and processing, integrating stock market data with company sentiment analysis based on timestamps, resulting in a 45% increase in predictive accuracy for investment strategies.
- Integrated an LSTM model for precise stock price forecasting and leveraged Google's News API for real-time credible articles, enhancing predictive accuracy by 40% and ensuring data robustness.

**GoFlaminGo Search Engine** (GitHub) — May 2023 – August 2023
**Technology Stack: Java, JavaScript, React.js, Spring Boot, CSS, and MongoDB.**

- Constructed a high-performance search engine on Microsoft Azure utilizing React.js, Spring Boot, MongoDB, Java, and JavaScript. This engine facilitates seamless user interactions and adheres to the Software Development Life Cycle (SDLC) methodology.
- Leveraged UML methodologies to design and architect the search engine, ensuring efficient information retrieval and optimal user experience by using various design patterns namely, builder, adapter, façade, and observer.