NISARG SHAH

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EDUCATION

Indiana University - Bloomington   07/2023 – 05/2024
Master of Science in Computer Science   *GPA: 3.0/4*
Coursework: Applied Algorithms, Elements of AI, Software Engineering - I, Engineering Cloud Computing, Advance Machine Learning

Kadi Sarva Vishwavidyalaya   07/2019 – 05/2023
Bachelors of Engineering in Computer Engineering   *GPA: 8.23/10*
Coursework: Object Oriented Programming, Advanced Algorithms, Operating Systems, Database Systems, Web technologies

TECHNICAL SKILLS

Languages: Java, Python, C, C++, Golang, Javascript
Services: Distributed Databases, SQL, NoSQL, PostgreSQL, Oracle SQL
Web Technologies: RESTful, JSON, HTTP, Gradle, Maven, REST
Tools: Git, Jira, Confluence, Jenkins, Docker, Kubernetes, AWS
Frameworks: Spring, Springboot, NodeJS, ExpressJS, Flask

EXPERIENCE

UITS - Indiana University   01/2024 – Present
Part-Time Accessibility Assistant   *Bloomington, IN, USA*
- Championed accessibility: Converted 100 legacy documents to accessible PDFs, impacting 1000 users with disabilities.
- Rigorous quality control: Achieved 98% success rate in meeting accessibility standards through 12 rigorous checks.
- Collaborative spirit: Successfully collaborated with 4 cross-functional teams to integrate accessibility, leading to 78% increase in accessible document production.

Dhirubhai Ambani Institute of Technology (DAIICT)   11/2022 – 06/2023
Part-Time Research Intern   *Gandhinagar, Gujarat, India*
- Tweet Master: Scraped 1.5M tweets on inflation with API & Selenium, optimized retrieval in MongoDB (tailored schema).
- NLP Pro: Achieved 89% accuracy in inflation sentiment analysis using BERT embeddings, aligned with NLP research.
- Topic Guru: Extracted inflation topics with BERTopic, boosted accuracy by 97% through manual annotation & tuning.
- Collaborative Modeler: Analyzed 58,000 tweets for finetuning, offered insights on public expectations & sentiment.

Capri Technosys   01/2021 – 08/2022
Jr. Software Developer (Backend)   *Ahmedabad, Gujarat, India*
- Scalable Data Acquisition: Leveraged Jsoup to scrape diverse data from 58,000 websites, ingesting a massive 325,000 units of information into efficient AWS S3 storage, fueling model training and analysis.
- Teamwork-Driven Impact: Partnered with the ML team, translating linguistic insights into actionable features. My data contributions, stored in AWS S3, helped the model's fraud detection accuracy soar by 70%.
- Linguistic Detective & Accuracy Booster: Analyzed extracted data, calculating unigrams, bigrams, and trigrams to uncover language patterns. These insights, integrated with the model via AWS S3, bolstered prediction accuracy by 93%.
- Agile & Automation Advocate: Utilized AWS CLI commands to effectively manage and transfer data stored in S3, ensuring seamless collaboration and agile workflows within the team.

PROJECTS

Patient Tracker System | *Microservice, Angular, SpringBoot, SQL, JWT, JSON, Load Testing*   09/2023 – 12/2023
- Developed micro-service application for Patient Tracking System using Spring Boot and Angular.
- Used MFA for authentication and leveraged JWT for session management.
- Implemented PDF generation, data security, data visualization and email service.

Advance Project Management System | *TypeScript, NodeJS, MongoDB, ExpressJS*   01/2023 – 03/2023
- Developed a feature-rich full-stack web application for university use, facilitating seamless communication and collaboration between Admins, Faculties, and Students in project endeavors.
- Revamped university workflows: Admins efficiently created 100+ student accounts, while Faculties expedited approvals and allocated students through an intuitive Kanban board interface, resulting in a 40% reduction in administrative time.

AgriOracle - IBM Hack Challenge 2021 Winner | *Python, IBM Watson Studio and Chat-bot*   06/2021 – 08/2021
- Led the development of an AI-driven application, utilizing soil composition and weather data to achieve a 20% increase in crop yield and a 15% reduction in water usage for optimal crop selection.
- Implemented season-specific crop yield projections and price forecasts, achieving an 18% increase in accurate yield predictions and a 25% improvement in price forecasting accuracy over a 12-month horizon.