

SANCHAY NARENDRA GAWANDE

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Summary

Software engineer with 2+ years in full-stack development and AI-driven applications. Proven track record in leveraging Python and frameworks like LangChain for impactful, data-driven solutions. Experienced in AI applications, engagement optimization, and secure multi-method authentication to drive high-performance systems and improve user interactions. Skilled in developing innovative software solutions that optimize data usage and enhance system security.

Technical Skills

- **Programming Languages:** Python, JavaScript, Java, C#, Groovy, Shell Scripting, SQL, NoSQL, R
- **Front-end Technologies:** Vue.js, React.js, Angular, Bootstrap, HTML5, CSS3, jQuery, AJAX
- **Databases:** PostgreSQL, MongoDB, Redis, Cassandra, Elasticsearch, MySQL, Oracle, Firebase
- **Back-end Technologies:** Flask, Spring Boot, Node.js, Express.js, RESTful APIs, Microservices, SOAP
- **Tools & Platforms:** Docker, Git, Kubernetes, Jenkins, GitLab, Bamboo, Ansible, NiFi, RabbitMQ, Kafka, Jira/Zephyr
- **Cloud Platforms:** AWS, GCP, Microsoft Azure
- **Testing & Monitoring:** Unit Testing, Integration Testing, Grafana, Prometheus, Kibana

Professional Experience

Software Engineer, Nestor Technologies 10/2023 – Present | Remote, USA

- Developed an AI-driven chatbot utilizing LangChain, FAISS, and ChatGrok to address diabetes-related queries, facilitating real-time interactions and improving user experience through effective text retrieval and response management, handling over 1,000 queries daily.
- Implemented a search feature using TF-IDF and BERT embeddings, enabling users to quickly find relevant diabetes articles. This enhancement led to a 35% increase in user engagement and streamlined navigation across the comprehensive web application.
- Engineered a secure authentication system with Firebase, allowing multi-method sign-ups (email, Google, Facebook). Ensured data protection through token-based authentication and password hashing with passlib, achieving a 99.9% security compliance rate.
- Created API endpoints using Flask for article search, embedding generation, and chatbot interactions, ensuring reliable data handling and facilitating seamless real-time communication with the MongoDB database.
- Designed a tailored user experience by allowing medical data entry upon registration. This feature empowered users with customized health recommendations and enabled them to track article interactions in their secure profiles.
- Implemented CI/CD pipelines via Jenkins and GitLab, streamlining development and deployment processes.
- Applied Agile methodologies (Scrum framework) for efficient cross-functional team collaboration.

Software Engineer, Infosys 06/2021 – 08/2022 | Bengaluru, India

- Developed a customer churn prediction model utilizing historical data to identify at-risk customers. This solution aids businesses in strategizing retention efforts, ultimately improving customer satisfaction and revenue stability.
- Led the complete development process, managing data preprocessing, feature engineering, model selection, and deployment. Oversaw challenges like imbalanced datasets to ensure optimal model accuracy in production settings.
- Utilized Python for programming and deployment tasks, leveraging libraries like Pandas and NumPy for effective data manipulation, cleaning, and transformation. Ensured a streamlined workflow throughout the project.
- Employed Scikit-Learn to explore multiple algorithms, including Logistic Regression, XGBoost, SVM, and Random Forest. Conducted rigorous model training and fine-tuning to achieve high accuracy while balancing precision and recall.
- Built a Flask API to provide real-time predictions, integrating seamlessly with CRM systems. This allowed businesses to access insights dynamically, enhancing their ability to address customer churn proactively.
- Applied Spring Boot and Kafka to streamline event-driven communication in large-scale systems.
- Collaborated with cross-functional teams using Agile frameworks to enhance system functionality.

Education

Master of Science, University of Massachusetts, Boston 09/2022 – 05/2024 | Boston, USA
Computer Science

Bachelor of Technology, Sant Gadge Baba Amravati University 08/2018 – 05/2022 | Maharashtra, India
Computer Science and Engineering