Vismay Vilas Chaudhari

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Experience

Ecolab St. Paul, MN
Software Engineer Aug 2024 – **Present**

- Streamlined data pipeline performance by reducing data validation time by 30% through the application of Python and PySpark, ensuring seamless data flow and efficient management within Snowflake and Azure environments.
- Developed backend services using .NET for API integration, enabling real-time data processing and reporting, and improving the efficiency of data-driven insights.
- Collaborated with cross-functional teams in Agile sprints with cross-functional teams, improving system workflows and refining recommendation models, driving scalable solutions for business-critical applications and decision-making processes.
- Enhanced decision-making by streamlining data ingestion processes, ensuring reliable access to real-time data for business operations.

Tata Consultancy Services Mumbai, India
Assistant System Engineer Oct 2020 – Jul 2022

- Automated critical business workflows for finance and operations, driving a 25% increase in system productivity by eliminating manual data entry.
- Optimized SQL Server and MySQL query performance by 25%, ensuring faster data retrieval and high availability.
- Leveraged Git for version control and deployed solutions using TIBCO and AMQ for seamless synchronization and message queuing, ensuring smooth communication between applications.

Projects

Valorant Strategy AI Chatbot (Riot X AWS Hackathon) Sep 2024 – Oct 2024
Tech Stack: AWS (Bedrock, OpenSearch, S3), Streamlit, Selenium, Python

- Innovated an **AI-powered chatbot** providing team composition recommendations for Valorant, using **Selenium** to **scrape real-time player data**, improving data access efficiency by 20%.
- Embedded **OpenSearch** for efficient data **indexing**, ensuring fast and accurate retrieval of team and player statistics for audience targeting and tactical decisions based on **analytical** data.
- Designed and crafted a **user interface** with **Streamlit**, allowing users to explore innovative strategies and create optimal team compositions based on real-time data.

Serverless Function Development Platform Jan 2024 – May 2024
Tech Stack: Python, Django, Kubernetes, Docker, Minikube

- Built a cloud-based **serverless function editor** and deployment platform within OpenStack, enhancing serverless computing capabilities and streamlining **function creation and deployment**, improving user efficiency by 30%.
- Designed an **in-browser function editor, automated CI/CD pipelines**, and integrated **Kubernetes** for orchestrating containerized applications, reducing deployment time by 40% and ensuring scalability across environments.
- Orchestrated system monitoring and debugging through function metrics reporting, improving performance analysis and reducing troubleshooting time by 20%.

Memoir: Blog Platform Dec 2023 - Jan 2024
Tech Stack: Django, React, PostgreSQL, AWS (EC2, RDS, S3, Lambda)

- Developed a **full-stack blog platform**, leveraged **AWS** for hosting and **PostgreSQL** for data management, ensuring **scalability** and high performance.
- Incorporated **REST APIs** for user authentication and content management, streamlining data flow and improving the **user experience** across various devices.
- Ensured high-performance and secure handling of user data, integrated AWS Lambda for optimized image resizing, resulting in 25% reduction in load times.

Virtual Assistant with Sign Language using Deep Learning and TensorFlow Aug 2019 – Apr 2020
Tech Stack: Python, Tensorflow, and OpenCV

- Created a deep learning model for sign language recognition, enabling real-time gesture-to-command translation with 90% accuracy for deaf-mute users interacting with voice-activated virtual assistants.
- Trained the model with 5000+ ASL data, utilizing **TensorFlow** and **OpenCV** for gesture recognition and real-time processing.
- Utilized **Text-to-Speech** and **Speech-to-Text** technologies to enable smooth interaction with virtual assistants.

Related Research: Published *the research in the 2020 Second International Conference on Inventive Research in Computer Applications* ***(ICIRCA)***, ***IEEE,*** *and* ***International Research Journal of Engineering and Technology****, Volume 07 Issue 03, Mar 2020.*

Skills

Languages: Python, Java, C#, JavaScript, HTML, CSS, PHP, SQL, NoSQL
Databases: PostgreSQL, SQLite, MySQL, Cassandra, Oracle Database, Firebase, Snowflake, DynamoDB
Cloud & Infrastructure: AWS (EC2, RDS, S3, Lambda, OpenSearch), Azure.
Frameworks & Libraries: Django, Flask, .NET, Streamlit, ReactJS, TensorFlow, PyTorch, Next.js, Selenium
Development Tools: Git, Jira, Kanban, Azure-DevOps, Visual Studio

Education

Rochester Institute of Technology Rochester, NY
Pursuing Master of Science in Computer Science **Expected Graduation: May 2025**
Related Coursework: *Data Structures & Algorithms, Artificial Intelligence, Machine Learning, Big Data Analytics, Distributed Systems, Data Security & Privacy, Cryptography, and Database System Implementation.*

University of Mumbai Mumbai, India
Bachelor's degree in Information Technology Jul 2016 - Oct 2020
Related Coursework: *Operating Systems, Database Management Systems, Computer Networking, Artificial Intelligence, Business Intelligence.*