

Vismay Vilas Chaudhari

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Education

Rochester Institute of Technology

Master of Science in Computer Science

Expected Aug 2025

Rochester, NY

- **Relevant Coursework:** Adv. Data Structures and Algorithms, Adv OO Programming Concepts, Computational Problem Solving (Python), Machine Learning, Distributed Systems, Data Security & Privacy, Big Data Analytics.

Experience

Software Engineering Co-op

Ecolab

Aug 2024 – Aug 2025

St. Paul, MN

- Engineered Snowflake ETL pipelines processing 50M+ data points across 170+ countries, reducing manual reporting time by 40%.
- Implemented Great Expectations data quality framework with 15+ validation rules for global product data, achieving 99.7% data accuracy across production systems.
- Implemented AppDynamics monitoring integration for pipeline health checks, enabling proactive notification system for 8+ production data workflows.
- Automated Snowflake ingestion workflows using Azure DevOps CI/CD with parameterized templates, improving deployment consistency by 85% across environments.
- Revived hybrid recommendation engine using Apriori, K-means, and SVD algorithms for SKU optimization, increasing cross-sell opportunities across customer segments.
- Created production-grade C# (.NET) APIs to serve usage and performance metrics for 2M+ customers, powering Angular dashboards used by sales and service teams.

Software Engineer

Tata Consultancy Services

Oct 2020 – Jul 2022

Mumbai, India

- Developed .NET APIs processing high-volume trade data with ActiveMQ message routing through compliance validation workflows, supporting real-time trade settlement operations.
- Automated trade validation workflows using VBScript and UFT test frameworks, eliminating 70% of manual review processes for daily trade operations.
- Optimized SQL Server queries for analyzing 50K+ daily trade records and message consistency checks.

Projects

Valorant Strategy AI Chatbot - AWS x Riot Hackathon | LangChain, Streamlit, OpenSearch, AWS Bedrock, Python, Selenium

- Built a RAG-based assistant to analyze over 5,000 ranked Valorant match reports using vector search with OpenSearch and retrieval flows orchestrated by LangChain.
- Embedded tactical game data into vector indexes and integrated Bedrock-hosted LLMs to generate context-aware strategic suggestions.

CloudMart – Multicloud E-commerce Platform | AWS (EC2, EKS, ECR, DynamoDB, Lambda), Google BigQuery, Terraform

- Built full-stack e-commerce platform with Flask REST APIs and React frontend, supporting product browsing, cart management, and secure checkout workflows.
- Deployed microservices on AWS Lambda and integrated GCP BigQuery for analytics, achieving serverless scalability and cross-cloud data insights.
- Integrated Amazon Bedrock for smart product suggestions and OpenAI API live customer support chat.

Sign Language Virtual Assistant | TensorFlow, OpenCV, Inception-v3, Python

- Built a computer vision system to allow deaf-mute users to interact with voice assistants through real-time ASL gesture recognition.
- Trained a CNN on 5,000+ labeled images and achieved 94% accuracy, enabling consistent classification across diverse hand gestures.
- Delivered a seamless two-way experience by integrating gesture-to-speech and speech-to-text modules.

Serverless Function Platform | Python, Django, Docker, Kubernetes

- Engineered a web-based Python code runner that executes user scripts as Kubernetes jobs (37ms–3.5s latency).
- Containerized runs using Docker and managed job execution with ConfigMaps and K8s Jobs API.
- Automated deployment using GitLab CI and logged resource usage (CPU, memory) via psutil.

Technical Skills

Languages: Python, SQL, C#, Java, JavaScript, TypeScript, NoSQL

Frameworks & Libraries: Snowpark, Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, React.js, .NET, Django, Spark (PySpark), Selenium

Cloud & DevOps: AWS (S3, EC2, Lambda, DynamoDB, Glue, Bedrock), Azure (Databricks, Blob, DevOps), Docker, Kubernetes, Terraform

Databases: Snowflake, PostgreSQL, SQL Server, MongoDB, MySQL, Cassandra

Developer Tools: Streamlit, Git, GitHub, JIRA, VS Code, Postman, Swagger, OpenAI API, llama3