

Naman Vipul Chheda

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EDUCATION

Master's in Applied Data Intelligence, San Jose State University	May 2027
• Coursework: Data Warehouse and Pipeline, Data Visualization, Mathematical Methods for DI	
B.Tech in Computer Science and Engineering (Data Science), DJSCE	May 2025
• Coursework: Computational Finance (Honors), Big Data Engineering, Machine Learning, Artificial Intelligence	

EXPERIENCE

Inventure Growth and Securities Limited <i>Data Analyst Intern</i>	Mar 2024 - May 2024
• Developed a Python and SQL pipeline that consolidated disparate market signals from spreadsheets and ad-hoc exports into a unified, large-scale data management system, enabling integration with agent frameworks for automated market monitoring.	
• Analyzed over 50 live transactions and integrated SWOT assessments on major tech firms using large language models to translate raw data into actionable strategy notes that informed business roadmaps.	
• Engineered recurring market reports from large datasets using SQL and Tableau, leveraging prompt engineering to automate summarization and contributing to a 12% improvement in client portfolio returns.	
DJS Compute <i>Competitive Programming Mentor</i>	Sep 2023 - Dec 2023
• Mentored over 25 students in competitive programming, enhancing their analytical skills and problem-solving abilities through structured guidance, clear documentation, and a demonstrated passion for organization.	

PROJECT EXPERIENCE

Food2Recipe: Image-to-Recipe Data Pipeline	Dec 2024 - May 2025
• Built an end-to-end pipeline converting food photos into normalized recipe records with YOLOv8 + CNN features.	
• Lifted ingredient detection +23% using FPN, custom heads, curated augmentations, and balanced sampling.	
• Orchestrated data versioning, training, and inference with Airflow/DBT for reproducible runs.	
• Validated outputs at 82% BLEU; documented failure modes and improved label quality.	
Expert Patient Interaction Language Model	May 2024 - Oct 2024
• Fine-tuned Falcon-7B via Q-LoRA; improved response coherence and empathy +18% on internal prompts.	
• Built a modular PyTorch training/eval harness for prompt tuning, ablations, and rapid iteration.	
• Implemented BERTScore + calibration; maintained ~85% quality across cohorts and scenarios.	
• Automated ingestion, preprocessing, and bias-mitigation checks; packaged for deployment.	
Virtual Sales Assistant: A Chrome Extension	Mar 2024 - Jun 2024
• Shipped an extension delivering personalized recommendations to 200+ users.	
• Designed a CF pipeline: behavior features → candidate generation → ranking (87% offline accuracy).	
• Demonstrated 22% faster product search and 15% simulated conversion lift using interaction logs.	
• Added telemetry, A/B hooks, and guarded rollout for safe, iterative improvements.	
Uber Ride Data Using Big Data Technologies	Jan 2024 - May 2024
• Unified 10M+ ride logs into a curated Hadoop/Spark ETL for demand, surge, and routing analytics.	
• Achieved 3x query speedups vs SQL-only; produced star-schema tables and materialized aggregates.	
• Built Tableau dashboards for peak-hour planning and route allocation.	
• Delivered insights on driver utilization and revenue distribution adopted by operations.	

SKILLS

- **Languages:** Python, SQL, C/C++, Java, JavaScript, R
- **Data Engineering:** Airflow, DBT, Hadoop, Spark, ETL Pipelines, Snowflake
- **Data Analysis & Visualization:** Tableau, Power BI, Pandas, NumPy, Statistics, Data Modeling, Relational Databases
- **Cloud & Platforms:** AWS, Azure, Linux, Git, Docker
- **Machine Learning & AI:** Model Development, XGBoost, scikit-learn, Predictive Analytics, Data Preprocessing, Time Series Forecasting, GenAI, TensorFlow, Large Language Models, Agent Frameworks, Prompt Engineering
- **Core Concepts:** Automation, Reliability Analytics, Data Pipelines, Problem Solving, Cross-functional Collaboration, Passion For Organization

CERTIFICATIONS

- Amazon Web Services – Cloud Foundations — Cloud Architecting — Data Engineering

PUBLICATIONS

- N. Chheda, P. Saval. Virtual Sales Assistant: A Chrome Extension for E-Commerce Websites. IEEE ICAC2N 2024
- Gala, P., N. Chheda. Expert Patient Interaction Language Model. IEEE ICAC2N 2024