

Nithya Chandra Mohan

nithya.chandramohan1@gmail.com | 646-425-1963 | Los Angeles, CA (Open to Relocate) | [GitHub](#) | [LinkedIn](#)

Education

California State University, Long Beach

M.S. in Computer Science

Expected Graduation Date: Jan. 2027

Relevant Courses: Database Management Systems (DBMS), Distributed Computing, Advanced Software Engineering.

Experience

Outamation (Extern Program)

Data Engineering Extern

Jan. 2026 – Present

Remote

- Builds modular data ingestion and transformation pipelines using Python, OCR (Tesseract, PaddleOCR), and PDF parsing, processing 200+ page unstructured documents.
- Develops document retrieval workflows using Python and Llamaindex, applying chunking and metadata-based filtering to support semantic search use cases.
- Performs data quality checks and performance evaluation on OCR and retrieval pipelines, documenting findings and optimization considerations.

Deloitte Australia (Forage Virtual Experience)

Data Analytics Virtual Intern

Jan. 2024 – Feb. 2024

Remote

- Analyzed machine telemetry datasets from 5+ global factory locations using Excel and Tableau, identifying downtime and failure patterns that improved insight accuracy by 25%.
- Built interactive Tableau dashboards with operational KPIs, enabling factory-level performance monitoring and reducing issue identification time by 30%.

Aaishwarya Construction Company

Data Operations Associate

Apr. 2022 – Nov. 2024

Chennai, India

- Built and maintained structured data ingestion and transformation workflows using Excel and Google Sheets, improving data accuracy and data retrieval efficiency.
- Designed ETL-style reporting pipelines to process labor, material, and cost data using Excel automation, reducing manual processing time by 40%.
- Performed data quality checks, validation, and aggregation on multi-year operational datasets to support analytics and operational decision-making.

Publications

The Role of Generative AI in Transforming Healthcare Services

IEEE – 25th International Conference on Software Quality, Reliability, and Security Companion (QRS-C), 2025

DOI: 10.1109/QRS-C65679.2025.00015

- Analyzed applications of Generative AI in healthcare, including diagnostics, clinical documentation, drug discovery, and privacy and bias considerations.

Projects

End-to-End Document Data Pipeline (Independent Project) | Python, Pandas, SQL, ETL, OCR

Jan. 2026 – Ongoing

- Built data ingestion and transformation pipelines in Python to process structured and semi-structured data, improving data readiness for analytics.
- Implemented ETL workflows with data validation, schema enforcement, and transformations using Pandas and SQL, reducing data inconsistencies by 30%.
- Documented data pipelines, schemas, and processing logic, improving maintainability and reducing onboarding time by 25%.

Automated Business Analytics & KPI Pipeline (Independent Project) | Python, SQL, Analytics

Oct. 2023

- Developed ETL-style analytics workflows using Python and SQL to process structured datasets for reporting and analysis.
- Performed data quality checks and aggregation to support accurate KPI calculation and validation.
- Optimized data processing logic to improve query performance and reporting efficiency.

Skills

Languages: Python, SQL

Data Engineering: ETL/ELT, Data Pipelines, Data Ingestion, Data Quality & Validation

Analytics & Libraries: Pandas, KPI Analysis, Data Aggregation, Query Optimization, Documentation, Git