

Surya Manjri

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EXPERIENCE

University of New Haven

Mentor

Connecticut, USA

Jan 2025-May 2025

- Advance scientific research on clinical data by orchestrating *Microbiome Data Analysis* using Python & R-programming.
- Designed and deployed strategic data validation procedures while maintaining data consistency to improve data quality.
- Conducted an efficient data management process utilizing secure cloud storage to ensure compliance with data privacy policies.
- Collaborated on a research paper based on findings & documented insights to contribute to scientific literature in *Neuroscience*.
- Compared various machine learning models to identify the most effective approach for data analysis, optimizing performance and accuracy in clinical research applications.

Adiona Travels Pvt Ltd

Data Analyst Intern

Haryana, India

Nov 2022 – May 2023,

- Implemented a comprehensive *Automatic Reconciliation Tool* using MySQL Workbench and MS Excel to efficiently track over 400,000 daily transactions from ServiceNow to the database, resulting in an impressive 78% reduction in resource efforts.
- Documented policy and claims-related large datasets, providing actionable insights to technical and non-technical stakeholders.
- Applied SQL queries for data manipulation to uncover key-patterns, resulting in a 30% improvement in the reporting accuracy.
- Identified and reduced defects by 8X, showcasing effective problem-solving skills and process improvement.

Adiona Travels Pvt Ltd

Data Engineer Intern

Haryana, India

Jun 2022 – Oct 2022

- Conducted in-depth research on insurance data by utilizing Monthly Service Review (MSR) and analyzing Monthly Metrics.
- Applied SQL queries for data manipulation to uncover key-patterns, resulting in a 30% improvement in reporting accuracy.
- Identified and reduced defects by 8X, showcasing effective problem-solving skills and process improvement.
- Teamed up with cross-functional teams to resolve critical problems in the application by maintaining Excel reports and adding innovative formulas to boost the speed of operation by 20%.

EDUCATION

University Of New Haven

MS in Data Science

West Haven, CT

Aug 2023 – May 2025

- Relevant Coursework: Data Science, Artificial Intelligence, Machine Learning, Distributed and Scalable Data Engineering, Computer Vision, Deep Learning, Natural Language Processing, Bayesian Data Analysis
- Dean's Scholarship, Volunteer Capstone Project Completion

Chitkara University Institute of Technology & Engineering

B.Tech in Computer Science and Engineering

Punjab, India

Aug 2019 – July 2023

- Relevant Coursework: Data Structures & C, Object Oriented Programming, Database Management System, Computer Networks, Information Theory, Mathematics, Wireless Communication and Radar Engineering
- Top Class Performer, Professor Recommendations

PROJECTS

Tic-Tac-Journey | [Github](#)

- Developed AI agents (Random, Minimax, Heuristic) in Python to simulate strategic gameplay and evaluate decision-making efficiency. Implemented Minimax with Alpha-Beta Pruning and Expectimax to optimize game performance and reduce computational complexity. Designed a round-robin tournament framework to benchmark AI agents against human players using accuracy and execution time metrics.

University-RAG-Chatbot | [Github](#)

- Built a RAG-based chatbot to answer queries using university website data.
- Used ChromaDB + MiniLM for semantic search; integrated Mistral 7B (via Ollama) for response generation.
- Automated data updates with Apache Airflow; deployed on AWS EC2 (GPU).
- Created a Streamlit app for user interaction.

SKILLS

Languages: Python, R, SAS, SQL, MATLAB

Libraries: Pandas, Numpy, Matplotlib, scikit-learn, SciPy, TensorFlow, Keras, OpenCV, Pytorch

Technologies: Flask, MongoDB, MS-Tools, Tableau, Power-BI, Snowflake, AWS, Azure, Grafana, Canva, Squarespace

Methodologies: ETL, Agile, Scrum, OOP, Functional Programming, DevOps, CI/CD