Harshit Mehra

Bhopal, MP | +91 88394 04274 | harshitmehra122@gmail.com | Linkedin

Education

University of Arizona, Tucson, AZ, USA

Aug 2023 - Dec 2024

Master of Science in Data Science

- GPA: 3.5/4
- Relevant Coursework: SQL/NoSQL, Data Mining, Data Visualization, Cloud Computing, Project Management

Lakshmi Narain College of Technology, Bhopal, MP, India

Sept 2019 - May 2023

Bachelor of Technology in Computer Science

- CGPA: 8.25/10
- Relevant Coursework: Data Structures & Algorithms, DBMS, Object Oriented Programming, Operation system

Skills

- Programming Languages: Python, SQL, R
- Visualization & Reporting: Tableau, Power BI, MS Excel
- Databases: PostgreSQL, MySQL, ETL
- Data Processing & Analysis: Data Mining, Statistical Analysis, SQL Query Optimization

Certification

- PostgreSQL for Everybody University of Michigan (Coursera)
- Machine Learning Foundations University of Washington (Coursera)
- Web Development University of Michigan (Coursera)
- Cisco Certifications: Cyber Security Essentials, Introduction to Cybersecurity, Introduction to Packet Tracer

Internship

Data Analyst Intern

Landmark Ventures, Bhopal, India

June 2022 - Aug 2022

- Developed interactive Tableau dashboards for real estate sales and market insights.
- Analyzed customer trends and sales data using SQL and Python to optimize pricing strategies.
- Conducted market research using Excel and Power BI to identify real estate trends and competitor benchmarks.
- Cleaned and preprocessed large datasets from multiple sources for accurate reporting.

Projects

YouTube Tag Recommender System

March 2025

- Built an Al-powered system to suggest YouTube tags using 300+ video titles and descriptions.
- Implemented TF-IDF and zero-shot classification with Transformers to extract 3–5 relevant tags per video.
- Deployed a modular Python pipeline with a Streamlit app for interactive tag-based search.
- Tech: Python, HuggingFace, Transformers, TF-IDF, Pandas, Streamlit.

Semantic Search System - Online Retail Catalog

December 2024

- Worked on building a smart search system for 1.3M+ retail products using natural language queries.
- Built and benchmarked BM25 search in Elasticsearch; compared with Sentence Transformers.
- Evaluated performance using Precision@K and Recall@K on curated product data.
- Tech: Python, Elasticsearch, Sentence Transformers, PostgreSQL.

Al Snake Game - Pathfinding & Reinforcement Learning

October 2024

- Developed a playable Snake game with Al agents using BFS, A*, and Q-learning for movement and survival.
- Visualized agent decision-making in real time to demonstrate shortest-path navigation and reward optimization.
- Implemented Q-learning with epsilon-greedy strategy to train the snake agent for long-term survival.
- Tech: Python, BFS, A*, Q-learning, Pygame.