

YASH VISHE

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EDUCATION

UNIVERSITY OF CALIFORNIA, SAN DIEGO
Masters in Data Science

La Jolla, CA
Sep 2024 - Jun 2026

UNIVERSITY OF MUMBAI
B.E. in Computer Engineering (CGPA: 9.31/10)

New York, NY
Jul 2016 - Jul 2017

TECHNICAL SKILLS

Technical Skills: Programming (Python, SQL, C++), Machine Learning, Deep Learning, Natural Language Processing, Computer Vision, Generative AI, Large Language Models (LLMs)

Techniques: Data Analysis, Data Engineering, Feature Engineering, Model Evaluation, Transfer Learning, Fine-tuning LLMs, Prompt Engineering, Statistical Analysis

Tools & Software: TensorFlow, Keras, Scikit-Learn, Transformers, LangChain, NumPy, Pandas, BERT, PySpark, Git, Google Cloud Platform, Gemini API, AWS, Apache

WORK EXPERIENCE

Data Analyst Mumbai, India
Media.net Jul 2023 – Aug 2024

- Designed efficient ETL pipelines, migrating 46 alerts from Apache Superset to Apache Airflow to reduce the load on AWS Redshift, resulting in 38% faster data retrieval.
- Led the development of a bid adjustment algorithm in Python, strategically increasing bids with volume growth and reducing it otherwise, achieving a 13% increase in overall traffic volume.
- Created 8 dashboards on Tableau for revenue reporting and tracking CVRs, eliminating manual work and making the reporting process 78% faster.

Software Development Intern New Delhi, India
Neumann Fornaxx Nov 2022 – Feb 2023

- Led the design of an automated system to delete duplicate data, reducing database size by 62%.
- Automated the scraping of over 100,000 rows of data from Zomato and Swiggy using Python CRONs and BeautifulSoup, enabling detailed market analysis and data-driven decision making.

PROJECTS

Community Analysis using Graph Networks — Python, SpaCy, NetworkX ([Github](#)) Apr 2024

- Engineered an advanced Named Entity Recognition system that achieved a 60% improvement in character recognition, parsing interpersonal relationships from the Percy Jackson series across 10 books.
- Created interactive network graphs, identified groups of characters using community detection, and tracked the importance of all characters over the entire series of books.

Document Query Agent using Multi-Modal RAG — Langchain, Python, VertexAI, ChromaDB ([Github](#)) Mar 2024

- Implemented a document query agent with a multi-modal self-reflective RAG for accurate data retrieval. Integrated Tavily web search agent to mitigate hallucination issues, boosting answering accuracy by 26%.
- Programmed the Gemini-1.5-pro model to generate summaries of unstructured data, including images and tables using LangGraph, improving retrieval accuracy by 23%.

Book Recommendation Engine — Python, NLTK, Sklearn ([Github](#)) Jan 2023

- Scrapped GoodReads website to retrieve information on over 1 million books.
- Developed book recommendation system using cosine similarity, TFIdvectorizer and collaborative filtering to analyze book data, delivering five personalized recommendations aligned with user preferences based on book summaries.

RESEARCH AND PUBLICATIONS

Enhancing Brain Tumor Detection Using Multimodal Approach Coimbatore, India
IEEE · International Conference on Artificial Intelligence and Machine Learning Applications May 2024

- Researched optimization functions to reduce false negatives in medical image analysis, achieving a recall improvement to 98.2%.
- Achieved an accuracy of 96.33% in brain tumor identification by training ResNet50 and ResUNet deep learning models for classification and segmentation using transfer learning.