

ANSH KRISHNA

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EDUCATION

University of Southern California

Aug 2024 - May 2026

Master of Science, Applied Data Science (GPA: 3.7/4.0) | GRE: 320 (167 in Quant)

- **Coursework:** Python Programming, Machine Learning, Information Retrieval, Data Management, Data Mining

Pandit Deendayal Energy University

Aug 2019 - May 2023

Bachelor of Technology, Computer Engineering (GPA: 9.14/10)

- **Coursework:** Artificial Intelligence, Pattern Recognition, Applied Data Analysis, Cyber Security, Cloud Computing, Data Structures and Algorithms, Operating Systems, Applied and Cognitive Psychology

INTERNSHIP EXPERIENCE

Data Security Council of India | Intern

Jan 2023 - Jul 2023

- Researched and applied machine learning models using Python and C++ to analyze over 100k structured/unstructured text records, extracting insights to support 5+ national-level cybersecurity initiatives.
- Structured and cleaned large datasets for cybersecurity trend analysis while ensuring data integrity and efficient processing.
- Collaborated with a 6-member cross-functional team—including engineers, data analysts, and domain experts—to deliver weekly insights and enhance internal intelligence tools used by 3 government stakeholders, showcasing strong problem-solving and communication skills.

Talentserve | Full Stack Intern

May 2022 - Jun 2022

- Developed and deployed full-stack web applications using core programming languages and frameworks to support dynamic data visualization dashboards for 3 departments.
- Integrated Python-based analytics logic with front-end components, resulting in a 35% improvement in user interaction and promoting clean, well-architected code practices.
- Delivered functional UI/UX using React and REST APIs, contributing to a 25% faster feedback loop during pilot testing and demonstrating effective collaboration with diverse teams.

PROJECTS

LLM-Powered Course Recommender

- Built a web app that reads resumes and recommends online courses based on the user's background and goals.
- Developed a resume-based recommender system that achieved **90%+ semantic match accuracy** across 100+ test cases.
- Built with Python, Streamlit, FAISS, and transformer models (SentenceTransformers).

ChatDB - Natural Language Interface for SQL Databases

- Built a natural language interface using Gemini LLM to convert user input into executable SQL and MongoDB queries, enabling intuitive access to structured data.
- Designed and deployed a MySQL-backed NLP system, supporting dynamic querying and real-time data exploration via Streamlit.
- Engineered a prompt-aware schema pipeline that improved LLM-generated SQL accuracy by 50%, handling joins, filters, and CRUD operations.

ETL Pipeline for Earthquake Forecasting

- Built and maintained an ETL pipeline using Python to process geospatial datasets for earthquake magnitude prediction.
- Applied feature engineering, cross-validation, and performance metrics such as MAE and RMSE to validate accuracy.

SKILLS

- **Languages:** C++, Java, R, MATLAB, HTML, CSS, JavaScript
- **Frameworks/Tools:** PyTorch, TensorFlow, OpenCV, Label Studio, Scikit-learn, Hugging Face, Git, Pandas, REST APIs
- **Technologies:** Hadoop, MapReduce, Spark, AWS, Linux, Tableau, Docker
- **Concepts:** GenAI, Model Evaluation, Deep Learning Training Loops, API development, Cyber Security, Machine Learning
- **Soft Skills:** Problem Solving, Communication, Independent Research, Collaboration, Creative Thinking

EXTRA-CURRICULARS

Debate Society, Pandit Deendayal Energy University | Member of Debate Team

- Represented university in analytical debate competitions and led argument development workshops