



Diksha Verma

Bachelor of Technology
Artificial Intelligence and Data Science
Guru Gobind Singh Indraprastha University EDC Delhi
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GitHub
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EDUCATION

- **Bachelor of Technology in Artificial Intelligence and Data Science** 2021-25
UNIVERSITY SCHOOL OF AUTOMATION AND ROBOTICS Surajmal Vihar New Delhi CGPA: 8.732
- **Intermediate** Year: 2020
DTEA ser sec School, New Delhi Percentage: 86.5

PERSONAL PROJECTS

- **KEGG Metabolic Reaction Network (Undirected)**
Modeled metabolic pathways from KEGG XML as Reaction and Relation networks in Cytoscape, computing various network features.
 - Applied XGBOOST REGRESSOR to understand the genomic information, chemical information and health information.
 - Performed Exploratory Data Analysis to understand the different variables affecting the metabolism and reaction rate.
 - Adjusted R2 score 97.01 with a regressor model (XGB Regressor and Random Forest Regressor).
- **YouTube Translator** 16 Aug, 2024 – 30 Aug, 2024
Developed a tool that extracts audio from YouTube videos and translates it into different languages.
 - Implemented Whisper AI for transcription and GoogleTranslator (deep_translator) for text translation.
 - Built a database storage system to manage downloaded audio files and transcripts efficiently.
 - Utilized OpenAI and AI21 APIs for enhanced transcription accuracy..
- **Rag Based Chat Bot**
 - Developed a tool that converts user questions into SQL queries, enabling students like us and internal teams to easily retrieve academic information like marks and attendance from RDBMS databases.
 - also ensures the real-time accurate result by executive queries across multiple tables.
 - Technology Used: LLM, LLM fine-tuning, keras, tensorflow

EXPERIENCE

- **Software Development Intern** Aug-Sept 2023
BISAG-N, Ministry of Electronics and Information and Technolgy, Govt. of India On-site
 - Contributed actively to e-governance projects, gaining firsthand experience in digital solutions for public service.
 - Dived into Spring MVC, Hibernate, Spring Boot, and PostgreSQL, gaining invaluable hands-on experience with these essential technologies in the IT landscape..

TECHNICAL SKILLS AND INTERESTS

Languages: C/C++, Python
Libraries : C++ STL, Python Libraries
Cloud/Databases: MongoDB, Relational Database(mysql), vector database
Relevant Coursework: Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Database Management System, Software Engineering.
Areas of Interest: Machine Learning, Natural Language and Processing, Data Science, Deep learning, LLM, LLM fine-tuning.
Soft Skills:: Content Writing, Problem Solving, Self-learning, Presentation, Adaptability

POSITIONS OF RESPONSIBILITY

- **Class Representative USAR, NEW DELHI** 2022-2024
 - Represented as a class head - learn effective communication, problem-solving, responsibility, public speaking, and networking.