Kanak Tanwar

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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Graduation Date
B.Tech - CSE	Dronacharya College Of Engineering	86%	Ongoing
Senior Secondary	Manav Rachna International School	96.0%	May 2022
Secondary	Manav Rachna International School	97.6%	May 2020

Experience

AI Intern | Mentorpal.ai **June 2024 to July 2024**

- Engineered an extension to suggest personalized messages to prospective leads on LinkedIn.
- Developed an internal tool to allow QA with various resume using LangChain and LLM improving efficiency of the team.
- Scraped various websites using Selenium and BeautifulSoup to provide client leads.
- Collaborated with a team of professionals to design, develop, and implement innovative solutions driving the company's growth.

Projects

Git Chat

- Developed a RAG-based application enabling Q/A interactions with GitHub repositories.
- Utilized Weaviate vector database and LangChain for efficient data management and processing and built a user-friendly UI on Streamlit to facilitate seamless user interaction.
- Implemented functionality to automatically load new repositories when encountered, ensuring up-to-date data access.

Social Media API

- Programmed a robust API using FastAPI for CRUD operations, authentication, and schema validation.
- Integrated PostgreSQL with SQLAlchemy for seamless database management and utilized Alembic for migrations.
- Deployed the API to an Ubuntu machine on DigitalOcean, configured a domain name, and implemented an SSL certificate for secure access.
- Implemented a CI/CD pipeline using GitHub Actions for streamlined deployment and updates.

Movie Recommendation System

- Cleaned and transformed TMDB dataset from Kaggle with about 5000 data points.
- Utilized text processing techniques such as converting text to vectors using bag-of-words model and text vectorization to improve performance.
- Built and fine-tuned a content-based recommendation system using sklearn to recommend movies similar to the input.

House Price Prediction Project

- Processed a Bangalore housing dataset comprising more than 13,000 data points.
- Engineered a linear regression model using scikit-learn to predict house prices based on the Bangalore House Price Data from Kaggle, achieving an 85% accuracy rate.
- Designed a user-friendly website using HTML, CSS, JS, Flask and deployed the website on an AWS EC2 instance using NGINX reverse proxy.

Skills

- **Programming Languages -** Python, Java, C/C++, JavaScript, R, Bash
- **Web Development -** HTML, CSS, JS, Bootstrap, Flask, FastAPI
- **Data Science and Machine Learning -** NumPy, Pandas, Matplotlib, Scikit Learn, LangChain
- **Database and ORM -** MySQL, MongoDB, PostgreSQL, SQLAlechemy
- **Misc -** Git, Linux, AWS, Streamlit, Docker, BeautifulSoup, Selenium

Achievements

- Gate qualified DA (AIR 702) and CS (AIR 3050).
- Regionalist at ICPC Amritapuri, 2023.
- AIML track prize winner in HackKRMU 3.0 (WanderAI Project).
- AIR 8 in NCAT 2023.

Key Courses

- Database Management with SQL, AIML fundamentals, Advanced Data Structures, Object Oriented Programming, Operating Systems
- Mathematics: Linear Algebra, Probability & Statistics, Basic Calculus