

UTKARSH RAJ

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WORK EXPERIENCE

ADVENTURE SPORTS COVER 360 | BACKEND DEVELOPMENT INTERN

| April 2023 – Present

- Developed a robust user **authentication system**, using **Django** and **Python**, seamlessly integrating **social authentication** methods to enhancing **user experience** and **security** for multiple user types, including **B2C** and **B2B**.
- Innovatively Implemented personalized insurance plan recommendations feature leveraging **Django Rest Framework (DRF)**, notably the **"Get Your Quote" API**, enhancing user experience with tailored insurance options based on individual criteria.
- Launched and managed **asc360.com**, achieving a **60%** increase in user engagement, developing the entire website from scratch.
- Implemented **EmailThread** and **Celery** for efficient email communication and task scheduling, ensuring optimal performance and reliability across various features of the platform.
- Actively engaged in **agile** development processes, including **daily scrums** and **sprint planning**, while utilizing **Jira** and **git** for task management, progress tracking, and on-time project delivery.

PRAEDICO GLOBAL RESEARCH PVT. LTD. | SOFTWARE DEVELOPMENT INTERN

| Jan 2023 – March 2023

- Utilizing my expertise in **Beautiful Soup**, I've developed multiple automation solutions **APIs**, resulting in significant enhancements in efficiency and productivity.
- Developed and implemented a streamlined **B2B client communication** feature, successfully deploying it alongside a comprehensive relational database containing information on **35,000** colleges.

PROJECTS

SQL-QA RETAIL ASSISTANT

PYTHON, LANGCHAIN, HUGGING FACE, CROMA DB

- Developed an end-to-end **LLM** project leveraging **Langchain** and **Google Palm** technologies to process SQL queries for the retail sector, with robust error-handling mechanisms in place.
- Utilized the **Hugging Face library** for dataset preparation and embedding vectors, stored in a **Croma DB**, enhancing query efficiency and accuracy through paired learning with the **LLM model**.

FACE RECOGNITION ATTENDANCE SYSTEM

PYTHON, DJANGO, OPENCV, FACE RECOGNITION LIBRARY

- Developed a **Django-based** system for streamlined attendance management using **facial recognition technology**.
- The web application enables student **registration**, automatic **attendance tracking**, **real-time reporting**.

CAUSE OF SMILES ANALYSIS (EDA)

PYTHON, PANDAS, NUMPY, MATPLOTLIB, SEABORN

- Conducted an **Exploratory Data Analysis** on the 2021 World Happiness Report during a **Hackathon** at MITS Gwalior. Collaborated in a team to address a problem presented by **Microsoft** and **presented** the findings.
- It included **data cleaning**, visualization using **Matplotlib** and **Pandas**, and identifying factors influencing happiness.

SKILLS

Languages: C/C++, Python, SQL, JavaScript

Database: PostgreSQL, Mysql, SQLite

Framework: Django, Django Rest Framework(DRF), Celery, Bootstrap

Technology: Git, GitHub, Jira, Postman Docker, Kubernetes, Ubuntu, Hostinger, AWS

Data Analysis: Web Scraping(BeautifulSoup), Numpy, Pandas, Matplotlib, Seaborn

EDUCATION

BTech Mathematics and Computing 4th year

Gwalior, India | 2020 - 2024

MADHAV INSTITUTE OF TECHNOLOGY AND SCIENCE(CGPA:8.49)

Coursework: Data Structure and Algorithms, Machine Learning, Operating System, Computer Networks, OOPS and DBMS

ACHIEVEMENTS AND EXTRACURRICULAR ACTIVITIES

Solved **300+** problems on Leetcode , GeeksforGeeks.

Led a team to secure the **3rd** ranking in **Hackathon 2022** conducted by **MITS Gwalior** in collaboration with **Microsoft**.

Created and maintain **"Nerd Coding" YouTube channel**, offering coding tutorials, practical tips, and fostering a learning community.