Rohit Tiwari

Roll No.: 2024PCS0036
Masters of Technology
Computer Science and Engineering
Indian Intitute of Technology, Jammu

📞 +91- 9906318676
✉ rohitkrtiwari2002@gmail.com
✉ 2024PCS0036@iitjammu.ac.in
 /rohitkrtiwari
in /in/rohitkrtiwari

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
MTech	Indian Institute of Technology, Jammu	-	2024-Present
BTech	Indian Institute of Technology, Jammu	7.81	2021-2024
Diploma(ECE)	Pusa Institute of Technology, Delhi	89%	2018-2021
Secondary	CBSE Board	81.0%	2018

PROJECTS

- **Book Recommendation System** *April, 2024*

  Exploring various Recommendation Algorithms and integrating it into a web application.
  - Developed a multi-page Flask web application showcasing project findings, including methods, results, and a live demo.
  - Implemented collaborative filtering and matrix factorization (NMF, SVD) algorithms, improving recommendation accuracy by 25% compared to a baseline model.
  - Processed and analyzed a dataset of 10,000+ user ratings, providing personalized book recommendations with a high degree of precision.

- **ISSAT - ISRO Satellite Tracker** *March 2023*

  ISSAT is an satellite tracking application that allows users to track the last position of ISRO satellites.
  - Interactive and responsive UI for selecting, tracking inidividual satellites.
  - Live Visualization of Satellites on 3D Globe and 2D World Map using Map APIs.
  - Integrated ISRO Website and N2YO Open Source API to retrive the satellites and their tracking data.
  - Tech Stack used : Flask, HTML CSS JavaScript, MySQL

EXPERIENCE

- **ELECTROZON, E-commerce Website: (Freelance)** *Dec 2020 - Sept 2021*

  A Full-Stack Website with all the traditional E-Commerce Features (Frontend-Backend).
  Description

  Frontend Features: User and Admin Front-end Responsive Layout, Pages: cart, category, product-desc, checkout, user-profile, order-history, etc.
  - Backend Functionalities: Website Content and User Profile Management Portal, Payment Gateway Integration, User Authentication (email), Cart, Checkout Functionality, etc.
  - Tech Stack User : PHP, MySQL, HTML CSS jQuery

ROLES & RESPONSIBILITIES

- **Teaching Assistant, DBMS Lab** *August 2024 - Present*

  IIT, Jammu
  - Assisted in teaching SQL Lab work to B.Tech students by facilitating understanding of database management concepts, including SQL queries, normalization, and schema design. Developed and maintained instructional materials to enhance student learning.
  - Provided one-on-one support and conducted review sessions to address technical queries and issues, ensuring students grasped complex concepts and successfully completed lab exercises.

- **Machine Learning (certificate)** *Feb 2022 - March 2022*

  Internshala Trainings Online
  - Certificate No.: E836641D-FCBA-CC4A-62B6-7AE9E6E12FB1

TECHNICAL SKILLS AND INTERESTS

Languages: Python, C/C++ and SQL - all Intermediate level
Developer Tools: Flask, Git, Linux, BASH Scripting, google colab
Machine Learning Data Analysis: Pandas, Tensorflow, PyTorch, NumPy, SciPy
Relevent Coureswork: Data Structures and Algorithms, Linear Algebra, Probability & Statistics, Operating System, Object Oriented Programming (OOP), Database Management Systems (DBMS), Software Engineering, Computer Networks, Computer Organisation and Architecture, Machine Learning
Area of Interest: Data Science and Machine Learning
Soft Skills: Problem Solving, Presentation, Flexibility and Adaptability