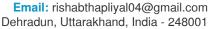# RISHAB THAPLIYAL

B.Tech. - Computer Science & Engineering - Graphic Era Hill University (Dehradun)

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Dehradun, Uttarakhand, India - 248001
LinkedIn: https://www.linkedin.com/in/rishab-thapliyal-b72514221/

BRIEF SUMMARY

A highly motivated and results-driven Computer Science Engineering graduate with expertise in frontend development (React.js, JavaScript), complemented by strong problem-solving skills in AI/ML and data analysis. Seeking a challenging role to apply technical skills and contribute to innovative projects.

KEY EXPERTISE

Programming in C++   Front-end Development: React.js, HTML, CSS, JavaScript   Back-end Development: PHP, SQL

Data Structures and Algorithms   Problem-Solving and Analytical Thinking   Machine Learning   Quick Learner and Adaptable

EDUCATION

Graphic Era University   2021 - 2025

B.Tech. - Computer Science & Engineering - Graphic Era Hill University (Dehradun) | CGPA: **8.15 / 10**

SHRI GURU RAM RAI PUBLIC SCHOOL, BINDAL, Dehradun   2021

12th | CBSE | Percentage: **86.50 / 100**

SHRI GURU RAM RAI PUBLIC SCHOOL, BINDAL, Dehradun   2019

10th | CBSE | Percentage: **80 / 100**

PROJECTS

Video Scene Classification System   15 Nov, 2024 - 26 Apr, 2025

Key Skills: React.js, JavaScript, HTML5, CSS3, Bootstrap, Python (Flask), OpenCV, CLIP, Sentence Transformers, RESTful APIs

Project Link: https://github.com/RishabThapliyal/Video-Scene-Classification-System

Developed a full-stack application leveraging AI (CLIP and Sentence Transformers) to intelligently classify video scenes and enable natural language-based search within video content. The system processes video frames with a Flask backend, integrating advanced multi-modal and NLP models, while the React frontend provides real-time scene seeking, an integrated video player, and video management functionalities. Demonstrated strong proficiency in AI model integration, full-stack development, and creating interactive user experiences for enhanced video content discoverability.

Diabetes Prediction System   04 May, 2024 - 06 Jun, 2024

Key Skills:

Support Vector Machine (SVM), Predictive Modeling, Data Preprocessing, Model Training, Model Evaluation, Risk Assessment

Project Link: https://github.com/RishabThapliyal/Diabetes-Prediction-System

Created a spam mail classification system using the Support Vector Machine (SVM) algorithm. The project involved loading and standardizing the dataset, splitting it into training and test sets, and training an SVM classifier with a linear kernel. Achieved an accuracy of 78.5% on training data and 84.4% on test data. Developed a predictive system to classify new instances, demonstrating effective data preprocessing, model training, and evaluation.

Spam Mail Prediction   21 Dec, 2023 - 02 Jan, 2024

Key Skills:

Logistic Regression, NLP, Machine Learning, Spam Detection, Data Preprocessing, Feature Engineering, Model Evaluation

Project Link: https://github.com/RishabThapliyal/Spam-Mail-Prediction-

Developed a machine learning model to classify emails as spam or ham using Python. Implemented data preprocessing, including text vectorization with TF-IDF and label encoding, to prepare data for model training. Utilized Logistic Regression for classification, achieving high accuracy on both training (97.06%) and test datasets (96.23%). The project demonstrates proficiency in data handling, feature extraction, model training, and evaluation. Built a functional system for predicting the nature of incoming emails, showcasing strong skills in text classification and machine learning.

Snake Game   08 Aug, 2023 - 09 Sep, 2023

Key Skills: HTML, CSS, JavaScript, Front-end Development, User Interface (UI) Design, Game Development, Event Handling

Project Link: https://github.com/RishabThapliyal/Snake-Game

Created a classic Snake game using HTML, CSS, and JavaScript, demonstrating skills in front-end development and game design. Implemented game mechanics such as collision detection, score tracking, and real-time updates with audio feedback for a more engaging experience. Developed a responsive and interactive user interface, showcasing proficiency in event handling and dynamic content rendering.

Spell Corrector
05 May, 2023 - 06 Jun, 2023

Key Skills: Python, Tkinter, TextBlob, Spell Checking, GUI Development, Algorithmic Implementation, Text Processing

Project Link: https://github.com/RishabThapliyal/Spell-Corrector-Using-Python

Developed a tool to identify and correct misspelled words using Python with Tkinter for the GUI and TextBlob for text processing. Designed an intuitive interface for users to input text and view corrections, showcasing proficiency in spell checking, GUI development, and algorithmic implementation. The project resulted in a functional and user-friendly spell correction application.

ACHIEVEMENTS

- Solved 750+ questions on LeetCode, with a focus on algorithmic challenges and data structure problems, improving coding proficiency and problem-solving speed.

ASSESSMENTS / CERTIFICATIONS

Introduction to Cloud Computing
Key Skills:

Cloud Computing, Virtualization, AWS, Azure, Google Cloud, IaaS, PaaS, SaaS, Cloud Storage, Networking, Cloud Security

Completed the 'Introduction to Cloud Computing' course on Coursera, gaining foundational knowledge in cloud computing concepts, deployment models (public, private, hybrid), and service models (IaaS, PaaS, SaaS). Gained practical experience with cloud infrastructure, including virtualization, cloud storage, and networking, and developed an understanding of cloud providers (AWS, Azure, Google Cloud) and cloud architecture principles (scalability, reliability, high availability). Acquired skills in cloud security, including data protection, compliance, and identity management.

Machine Learning Foundations: A Case Study Approach

Key Skills: Supervised Learning, Unsupervised Learning, Regression, Classification, Model Evaluation

Completed the "Machine Learning Foundations: A Case Study Approach" course, which provided a comprehensive introduction to machine learning concepts and techniques. Gained practical experience in supervised and unsupervised learning, including regression and classification. Applied skills in model evaluation, feature engineering, and data preprocessing through case studies, enhancing the ability to design, implement, and assess machine learning models in real-world scenarios.

EXTRA CURRICULAR ACTIVITIES

- University-Level Coding Competitions: Actively participated in multiple coding contests, enhancing problem-solving skills and gaining practical experience.
- School Events: Engaged in various activities including drawing competitions, quizzes, and sports championships, demonstrating versatility and a proactive approach.

PERSONAL INTERESTS / HOBBIES

- Sketching: Enjoy creating detailed and expressive artwork, which enhances creativity and attention to detail.
- Watching Movies: Passionate about films, which helps in understanding diverse perspectives and storytelling techniques.

WEB LINKS

- Github - https://github.com/RishabThapliyal
- Other - https://leetcode.com/u/Rishabth_/

PERSONAL DETAILS

Gender: Male

Marital Status: Single

Current Address: Durga mandir, teacher's colony, govind garh, Dehradun, Uttarakhand, India - 248001

Email: rishabthapliyal04@gmail.com

Date of Birth: 04 Apr, 2002

Known Languages: Hindi, English

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