Priyanshu Prasad Gupta

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TECHNICAL SKILLS

- **Languages**:   C/C++, Java (Proficient), Python.
- **Frameworks**:   HTML and CSS, JavaScript
- **Database:**   MySQL, MongoDB
- **Developer Tools:** VS Code, Git

TRAINING

DSA Training (84 Hours) | Hitbullseye in collaboration with Lovely Professional University

- Successfully completed an intensive 84-hour training program focused on Data Structures and Algorithms (DSA), designed to enhance problem-solving skills and coding proficiency.

- Acquired in-depth knowledge of fundamental and advanced DSA concepts, including arrays, linked lists, stacks, queues, trees, graphs, dynamic programming, and greedy algorithms.

- Gained hands-on experience in solving algorithmic challenges, optimizing code for efficiency, and implementing data structures to tackle complex computational problems.

- Improved problem-solving speed and accuracy by practicing on various competitive programming platforms, refining logical reasoning, and mastering time and space complexity analysis.

PROJECTS

- **Combining Autocorrect, Spellchecking, and Named Entity Recognition Using Probabilistic and Sequence Models**
  - Developed a Python-based machine learning model using a Kaggle dataset to predict house prices.
  - Implemented probabilistic and sequence models to enhance accuracy and efficiency. Utilized the Shakespeare dataset from Kaggle for training and evaluation.
- **Food Recommendation System Based on Nutritional Values**
  - Developed a recommendation system that suggests food items based on nutritional content.
  - Utilized a K-Nearest Neighbours (KNN) model with cosine similarity as the distance metric.
  - Pre-processed textual (ingredients) and numerical (calories, protein, carbs) data using TF-IDF and StandardScaler.
- **Sudoku solver visualizer using JAVA & SWING**
  - Developed a Java-based Sudoku solver leveraging backtracking and recursion to solve puzzles automatically.
  - Implemented functionality to randomly initialize Sudoku grids for dynamic problem generation.
  - Designed and integrated a user-friendly visual interface using Swing for interactive visualization of the solving process.
- **NUMBER GAME USING PYTHON**
  - Designed a Python-based interactive game where players guess a randomly generated number within a specified range.
  - Implemented input handling, random number generation, and score tracking.
  - Provided feedback on the number of attempts and final score to enhance user engagement.
- **Stationary shop website using CSS, JavaScript and HTML**
  - Designed and developed a simple two-page website showcasing basic functionality and layout.
  - Utilized HTML for structure, CSS for styling, and JavaScript for interactive features.

Certificates

- **Introduction to MongoDB for Students**
- **ChatGPT Advanced Data Analysis**
- **Generative AI with Large Language Models**
- **Introduction to Hardware and Operating Systems**

EDUCATION

- **Lovely Professional University, Punjab, India**
  BTech (Computer Science and Engineering) Coursework: Data Structure, Design, and Analysis of Algorithms, Operating System, DBMS; CGPA: 7.28   *Since August 2022*

- **DAV Public School, G.N., CCL, Jharkhand, India**
  Class XII CBSE 2020- 2021 Percentage: 81%

- **DAV Public School, G.N., CCL, Jharkhand, India**
  Class X CBSE 2018- 2019 ; Percentage: 82%