SUNNY KUMAR

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Education

MCA   Aug 2022 – June 2024
Birla Institute of Technology – Mesra, Ranchi | Percentage – 7.7

BSc (Computer Application and Cyber Security)   Aug 2018 – June 2021
Jharkhand Raksha Shakti University, Ranchi | Percentage – 8.5

Projects

Predicting Coca-Cola Stock Prices with Machine Learning [Python, Pandas, NumPy]
- Analyzed Coca-Cola stock data for October 2020.
- Employed SVR for accurate stock price prediction.
- Explored diverse kernels (linear, poly, RBF) for optimal model performance.
- Achieved exceptional results with Linear SVR (R-squared 0.94), outperforming other kernels.

Research Project: Hierarchical Clustering Sampling for Dimensionality Reduction [Python]
- Proposed HCS, overcoming challenges in large datasets.
- Utilized diverse ML models for evaluation.
- Demonstrated superior HCS performance.
- Validated as efficient and scalable dimensionality reduction method.

Is It Dark Outside [HTML, CSS, JavaScript, Openweatherman's API]
- Created a web app for instant outdoor assessment using geolocation and sunset time.
- Merged geolocation & OpenWeatherMap API for accurate sunset data.
- Real-time illumination status from current vs. sunset time.
- User-friendly interface displays outcomes in location and current time.
- Skills: API integration, geolocation, real-time data handling.

Movie Recommendation System [Python, Pandas, Numpy]
- Extracted, cleaned movie data, transforming text columns (overview, genres, keywords, cast, crew).
- Used Count Vectorization for numerical representation of textual data.
- Calculated cosine similarity to gauge movie similarities based on text.
- Developed a recommendation function for personalized movie suggestions.
- Enabled user input for favorite movies, enhancing personalized recommendations.

Experience

Chegg.com

Subject Matter Expert   April 2023 – July 2023
- Served as a computer science subject matter expert on Chegg.com, delivering high-quality answers.
- Demonstrated expertise in diverse computer science areas: programming, data structures, algorithms, and more.

Technical Skills
- **Languages:** Python, Java, JavaScript, HTML, CSS
- **Technologies/Frameworks:** MySQL, Pandas, NumPy
- **Other Tools**: Git, SQL, GitHub

Achievements
- Solved 200+ questions on data structures and algorithms on LeetCode and GeeksforGeeks portals.
- Achieved a rank under 150 on the GeeksforGeeks Institute Ranking.

Position of Responsibility
- Problem Solver – Chegg.com
  Have solved multiple problems on Chegg.com related to various domains of computer science subject.