Anmol Khandelwal

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Education

NIT WARNANGAL
Master of Computer Applications (MCA)
- CGPA : 7.99

June 2023 Warnagal, TS

SCH. OF COMP. SCI. & IT
Bachelors of Computer Applications (BCA)
- CGPA : 7.83

July 2020 Indore, MP

Links
GitHub **anmolk11**
Linkedin **anmolk11**
Kaggle **xanmol**
Leetcode **binary__search**

Coursework
Object-oriented design
Algorithm design
Data structures
Problem solving
Complexity analysis
Operating systems
Relational databases
Data mining
Machine learning

Skills
PROGRAMMING
Python • C/C++ • HTML/CSS • SQL

LIBRARIES
pandas • numpy • matplotlib • seaborn • nltk • BeautifulSoup • Selenium

MISCELLANEOUS
Shell • LaTeX • Git • Microsoft Office

Achievements
DATA SCIENCE HACKATHON
The Number Thing : Organised by LatentView Analytics
Ended up as one of the top finalists.
Certificate Link

STATE GOV. SCHOLARSHIP
For academic excellence
Received full 3 years scholarship for pursuing bachelors degree.

Projects
ENSEMBLE RULE MINING USING SPIDER MONKEY OPTIMIZATION FOR EFFECTIVE DISEASE DIAGNOSIS
`Python, pandas, sklearn,tqdm` [Code]
Jan 2023 – June 2023

- Enhanced performance of existing rule mining algorithms and applied ensemble learning techniques.
- Implemented Spider Monkey Optimization, a metaheuristic algorithm, and applied ensemble learning to generate IF-THEN rules from a dataset.
- Achieved notable results: Accuracy of **86%**, Precision of **85%**, Sensitivity of **86.73%**, Specificity of **85.30%**, and Mean Rule Length of **2.3**.
- **Outperformed** existing rule-based algorithms (e.g., ID3 and CART), metaheuristic-based algorithms (e.g., PSO, GA), and state-of-the-art ensemble models.
- Submitted the project as a research paper to the **Journal of Grid Computing**.

AMAZON REVIEW SENTIMENT ANALYZER
`Python, BeautifulSoup, Selenium, nltk, pandas` [Code]
Mar 2023 – Apr 2023

- Developed a Python-based project from scratch that utilizes web scraping techniques to extract product reviews from Amazon by taking the product URL as input.
- Utilized Selenium and BeautifulSoup libraries to effectively scrape the reviews and gather necessary data for further analysis.
- Implemented sentiment analysis on the extracted reviews using the NLTK library to determine the sentiment polarity (positive, negative, or neutral) of each review.
- Calculated an aggregate score for the product by considering the sentiment scores of individual reviews weighted by the number of likes receive.

EXPLORATORY DATA ANALYSIS
`Python, pandas, matplotlib, seaborn` [Code]
Feb 2023

- Conducted Uni-variate Statistics to determine boundaries, middle values, and analyze the distribution of the dataset.
- Utilized Bi-variate Statistics techniques to explore relationships between numeric-numeric data, employing Pearson correlation, scatter plots, and heat maps.
- Investigated Numeric-Categorical relationships using One-way Anova and Bar charts.
- Explored Categorical-Categorical relationships using Pearson chi-squared method.

DATA VISUALIZATION
`Python, pandas,matplotlib, seaborn` [Code]
Feb 2023

- Analyzed a HR dataset using data visualization techniques in Python, employing both Matplotlib and Seaborn libraries.
- Utilized Matplotlib to create various types of plots including line plots, histograms, bar charts, scatter plots, pie charts, and heat maps.