Akhilesh Vankayala

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Skills

Languages: C, Java, Python, JavaScript, SQL

Web Development: HTML, CSS, Bootstrap, React.js, Node.js, Express.js, REST APIs

Databases: MySQL, PostgreSQL

Version Control: Git, GitHub

Tools & IDEs: VS Code, Jupyter Notebook

CS Fundamentals: Data Structures & Algorithms

Platforms: LeetCode, HackerRank

Education

Anurag University Aug 2024 - Jun 2028 B.E. in Computer Science and Engineering ***CGPA: 9.85/10*** Relevant Coursework: Object Oriented Programming, Databases, Discrete Maths, Data Structures and Algorithms, Operating Systems, Computer Networks, Machine Learning, Data Mining, Advance Data Structures and Algorithms, Information Retrieval, Image Processing

Project Work

- **Word Lookup Dictionary (2015):** Developed a desktop software for online lookup of English words. Implemented efficient search of valid words using Trie data structure. Implemented spelling correction and auto-suggestion using edit distance algorithm. Used web scraping to get the data for online lookup. Python, BeautifulSoup.
- **Alternative-Routes in Road Networks (2016):** Applied Dijkstra's shortest path algorithm to find the route which takes the shortest time to travel from source to destination in a given road network with randomly generated traffic. Imple mented methods to avoid collisions between vehicles by dynamically changing their speeds. Used C++ and OpenGL library for simulation. C++, OpenGL
- **Clustering SSH Attacks (2016):** Applied KMeans clustering algorithm to segregate different kind of attacks during a Secure Shell (SSH) session by making use of network packet files(pcap). It involved finding the best value of K and grouping the similar files on the basis of cluster assignments. Java, WEKA

Awards and Certificates

- **Mentor at Scaler Academy:** Helping students and working professionals to get better at problem solving, coding and system design
- Data Engineering Nanodegree on Udacity
- Machine Learning and Deep Learning Specialization on Coursera