Sasi Pavan Khadyoth Gunturu

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Objective

Passionate graduate student with expertise in Python, Java, and SQL, specializing in efficient algorithms, data structures, and cloud solutions. Eager to apply my skills to innovative projects.

Experience

- **Kennesaw State University** *August 2024 - Present*
  Graduate Teaching Assistant (Parallel and Distributed Systems, Operating Systems)
  - Collaborated with faculty to design interactive course materials and hands-on activities, increasing student engagement by 20%.
  - Assisted in grading 70+ assignments and exams, ensuring 100% consistency and adherence to established criteria.
  - Held weekly office hours, resolving 95% of student queries related to coursework, assignments and projects.

- **Gokaraju Rangaraju Institute of Engineering and Technology** *August 2020 - April 2021*
  IETE Student Technical Assistant
  - Conducted regular system checks, reducing downtime by 15% and ensuring full lab functionality.
  - Assisted 50+ students with basic troubleshooting and software installation, improving lab efficiency.

- **Hebeon Technologies** *July 2020 - May 2021*
  Data Science Intern (Internship)
  - Built recommendation system based on user preferences using collaborative filtering approach.
  - Evaluated model performance metrics such as accuracy, precision and recall.

Education

- **Kennesaw State University** *Expected May 2025*
  Master of Science in Computer Science
  - **GPA:** 3.77/4.00
  - **Coursework:** Advanced Algorithms, Cloud Computing, Data Structures, Database Systems, Data Warehousing and Mining, Machine Learning, Natural Language Processing, Artificial Intelligence, Deep Learning

- **Gokaraju Rangaraju Institute of Engineering and Technology** *May 2022*
  Bachelor of Technology in Electronics and Communication Engineering
  - **Coursework:** Python Programming, Oops through Java, Artificial Neural Networks, Introduction to Machine Learning, Cloud Computing, Digital Image Processing

Projects

- **Title: Soft Computing Techniques for Driver Alertness**
  Software: OpenCV, dlib, Python
  - This project aims to reduce accidents caused by driver drowsiness. Cameras placed around the vehicle monitor the driver and calculate the Eye Aspect Ratio (EAR). If the EAR drops below the threshold (0.34) for more than 3 seconds, an alarm and a seatbelt vibration are activated to alert the driver, helping prevent accidents.

- **Title: Optimal Path Finder**
  Software: Python, Flask, NetworkX, OSMnx, Folium, Geopy
  - Developed a web app to find optimal routes using Dijkstra's and A* algorithms with real-time OpenStreetMap data. Implemented dynamic waypoint handling, traffic condition support, and interactive map visualization using Folium, Flask, and NetworkX.

Publications

[C.1] Gunturu Sasi Pavan Khadyoth, et al. (2022). **Soft Computing Techniques for Driver Alertness**. In *International Conference on Electronic Circuits and Signalling Technologies*. Publisher. 06/02/2022, Online. DOI: 10.1088/1742-6596/2325/1/012045

Skills

- **Programming Languages:** Python, Java, SQL
- **Data Analysis & Visualization:** MS Access, MS Excel, Matplotlib, Tableau
- **Web Technologies:** HTML, CSS, Javascript, Angular, React, Node.js
- **Database Systems:** MS Excel, MS Access, MySQL, Microsoft SQL server, MongoDB
- **Cloud Technologies:** Azure, AWS (EC2, S3)
- **DevOps & Version Control:** Git, Docker, Jenkins, Kubernetes, Ansible, Terraform
- **ML& AI Tools:** OpenCV, dlib, TensorFlow, Keras, Scikit-learn, Pandas, NumPy

Certifications

- **AWS Cloud Foundation** *June 2021*