Venkata Thapaswini Thota

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FULL STACK DEVELOPER

- Driven by a deep-seated passion for innovation and a strong technical acumen, I am eager to collaborate with diverse, cross-functional teams to create transformative solutions.
- With a keen interest in Python, Machine Learning, Artificial Intelligence, and DevOps, I am excited to contribute my skills and expertise to tackle complex challenges and drive meaningful advancements in technology.
- Hardworking professional experienced in field and ready for challenging assignments. Reliable in completing quality work and exceeding expectations.

SKILLS

- Programming Languages: C, Python, Java(basics), JavaScript, CSS, SQL, HTML, DBMS, OOPS, JS
- Tools: Visual Studio Code, AWS, DevOps, Git, Bootstrap, PyTorch, Microsoft, React
- Excel Framework: Pandas, NumPy, Matplotlib, AWSIoT

EXPERIENCE

GTA in Data Structures and Algorithms, University of Central Florida, January 2024-May 2024
Orlando, United States

- As a Graduate Teaching Assistant (GTA) at UCF, I facilitated lab sessions and lectures for the Data Structures and Algorithms (DSA) course.
- My role involved guiding undergraduate students in understanding complex DSA concepts, assisting with problem-solving, and evaluating their performance through grading.
- I aimed to create a supportive learning environment and fostered student growth and development throughout the course.

Intern Software Developer, TechCiti Software Consulting Private Limited, January 2020-30-08-20
Bengaluru, IN

- Engaged as a Software Developer intern, actively contributing to the "Bug Tracking Application" project.
- Collaborated with the development team to enhance the application's functionality, resolve bugs, and improve overall performance.
- Acquired valuable experience in software development lifecycle and teamwork.
- Gathered requirements from stakeholders to develop functional specifications for software projects.
- Resolved bug reports from internal and external customers.

Web Development Intern, Internshala, May 2020-October 2020
Ongole, IN

- Interned as a web developer, gaining hands-on experience in implementing HTML, CSS, Bootstrap, and working with Database Management Systems (DBMS).
- Successfully completed final project modules, demonstrating proficiency in front-end and back-end development.
- Acquired valuable insights into responsive web design and user experience principles.
- Tested and debugged code for compatibility across multiple browsers.
- Created responsive web applications by employing HTML, CSS, and JavaScript.

EDUCATION AND TRAINING

Masters in Computer Science
GPA:3.88/4, University of Central Florida, Orlando Florida Expected in December 2024

- Design and Analysis of Algorithms, Machine Learning, Operating systems, Advanced Computer Architecture, Computer Vision, Incident response Technologies, Malware and software vulnerability, Machine learning for biomedical data, Advanced Virtual Reality

Bachelor of Technology - BTech in Computer Science
GPA:9/10, Bapatla Engineering College, Bapatla, AP April 2023

- Design and Analysis of Algorithms, Machine Learning, Operating systems, Advanced Computer Architecture, Computer Vision, Incident response Technologies, Malware and software vulnerability, Machine learning for biomedical data, Advanced Virtual Reality

PROJECTS

Parkinson's Disease Detection using ML, 04/2023

- Implemented a machine learning-based app XGBoostsing the XGBoost algorithm and clinical data for early detection of Parkinson's Disease, achieving high accuracy according to results.
- Collaborated in a team of two to develop and implement a machine learning model, utilizing innovative skills to enhance all classifiers.
- Skills used include Machine Learning, Data Preprocessing, Python, and proficiency in various ML classifiers and libraries such as NumPy.

Vehicle Parking Space Counter using OpenCV, 11/2023

- Collaborated with a team of two to develop a real-time vehicle parking space counter using OpenCV and Python. Contributed by actively participating in coding and providing innovative ideas to enhance project functionality and efficiency.
- The project aimed to analyze video feeds from security cameras, detect and track vehicles, and accurately count available parking spaces, optimizing parking management and enhancing security.
- Skills used include Python, OpenCV, Computer vision, and object detection.

GAT: A Graph Attention Networks for Enhanced Protein-Protein Interaction and Drug Response Prediction, 04/2024

- I meticulously implemented the "TGSA: protein-protein association-based twin graph neural networks for drug response prediction with similarity augmentation" paper into "GAT: A Graph Attention Networks for Enhanced Protein-Protein Interaction and Drug Response Prediction."
- Skills Used: Proficient in Python for coding and implementation, Advanced knowledge of PyTorch for developing and optimizing neural network models, Deep understanding of graph neural networks (GNN) and graph attention networks (GAT), Ability to comprehend and implement complex research papers in the field of bioinformatics, Detail-oriented approach to modifying and improving existing codebase, Strong collaboration and teamwork skills honed in a research-intensive environment.

CERTIFICATIONS

Internship : https://drive.google.com/file/d/1Cy9x62ONTUBfwAqGYA942toVGDdjibxt/view?usp=sharing
web developer intern: https://drive.google.com/file/d/1EFJL1pLUJ6YkI0UGMpPGoAlSeVxbYY-I/view?usp=sharing