Jayanth Upthala

Hicksville, NY | +1 516-924-7052 | jayanth.upthala@gmail.com | LinkedIn | GitHub

Summary

Motivated and detail-oriented Computer Science graduate student with a strong foundation in software engineering, machine learning, and full-stack web development. Proficient in multiple programming languages including Python, Java, and C++, deep learning with hands-on experience in neural network modeling and image processing using Python and building ML-powered applications such as brain stroke detection systems and 3D rendering pipelines. Demonstrated ability to work in collaborative environments, backed by a solid academic background from the University of Bridgeport and VVIT. Experienced with cloud platforms like Microsoft Azure and GCP, and skilled in tools like TensorFlow, PyTorch, React, and SQL. Passionate about developing scalable, innovative solutions and eager to contribute to impactful software engineering projects

UNIVERSITY OF BRIDGEPORT

UNIVERSITY OF BRIDGEPORT   Aug 2023 - May 2025
Master of Science, Computer Science
- **GPA:** 3.5
- **Coursework:** OOP with Design Patterns, Data & Computer Communications, Analysis of Algorithms, Python for Data Science

VASIREDDY VENKATADRI INSTITUTE OF TECHNOLOGY   Aug 2019 - Apr 2023
Bachelor of Technology, Computer Science
- **GPA:** 7.5
- **Coursework:** Database Management System, Web Applications, C, Data Structures & Algorithms, Java, C++, Python, Hadoop

Experience

UI FELLOW FALL 2021   2021 - Present
UNIVERSITY INNOVATION FELLOW   *Guntur*
- Served as a UIF Change Agent at Vasireddy Venkatadri Institute of Technology, advocating for agile approaches and continuous improvement in event execution.
- Collaborated with UIF members to plan and execute events and projects, demonstrating clear communication and coordination with diverse stakeholders.
- Designed and facilitated initiatives such as Design Venture, the 24-Hour Design Challenge, and Design Workshops, strengthening team collaboration and management skills essential for agile environments.

Projects

PIXELSPLAT AND 3D RENDERING
- Collaborated with Team members to draw results to render 3D figures using 2 images
- Contributed to the train and test PixelSplat on SWORD dataset along with implementing Guassina model.
- Collaborated on developing and evaluating machine learning models focused on neural network modeling, image segmentation, and video object tracking, leveraging skills with PyTorch and TensorFlow.

BRAIN STROKE DETECTION USING MACHINE LEARNING ALGORITHMS
- Spearheaded Brain Stroke Detection project, resulting in detecting Tumor in the brain with high accuracy.
- Collaborated with team members to train & test catboost model.
- Implemented KNN & Random Forest models, leading to compare and obtain high accuracy.
- Technologies Used: HTML, CSS, Python, Pandas, Scikit Learn, Matplotlib.

Technical Skills

- **Programming Languages**: Python, Java, C++, C, Javascript, PHP, C#
- **Database Knowledge**: MySQL, ADO.Net, SQL, Microsoft SQL Server Management, Django
- **Web Application**: ASP.Net, React Framework, Bootstrap CSS
- **Machine Learning & AI**: Pandas, Matplotlib, opencv, Tensorflow, PyTorch, AI application development
- **Cloud Platforms**: Microsoft Azure, GCP, Cloud-native architectures
- **Other Knowledge**: Data Structures & Algorithms, Design Thinking, Git/GitHub, Image Segmentation, Deep Learning, Neural Network Modelling, Computer Communication Network, MySQL Server, Object Oriented Design, Software design patterns
- **Professional Skills**: Confident communicator, Commitment to quality

Achievements

- **Kho-Kho Captain**: I had the great pleasure to captain DKNP college Kho-Kho team and bring the cup to the college
- **UIF Fellow**: I had the opportunity to connect with my peers, faculty and administrators to create new learning opportunities for students at their schools to engage with innovation, entrepreneurship, design thinking and creativity.