

Akhil Chaitanya Ghanta

716-816-9105 | akhilchaitanyaghanta@gmail.com | [linkedin.com/in/akhil-ghanta](https://www.linkedin.com/in/akhil-ghanta)

TECHNICAL SKILLS

Programming Languages: Python, C/C++, Java, JavaScript, HTML/CSS
Database and Frameworks: SQL, MySQL, MongoDB, React, Node.js, Flask, Angular, Spring, Spring Boot
Developer Tools: Git, Docker, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse
Libraries: Pandas, NumPy, Matplotlib, Scikit-learn, Torch, NLTK, Regression models

EDUCATION

| | |
|---|---|
| University at Buffalo (SUNY Buffalo) <i>Masters In Computer Science</i> | Buffalo, NY Aug. 2023 – Dec. 2024 |
| Vellore Institute of Technology <i>B.Tech Computer Science and Business Systems</i> | Vellore, INDIA July. 2019 – May 2023 |

RELEVANT COURSEWORK

- | | | | |
|---------------------------|-----------------------|---------------------------|--------------|
| • Deep Learning | • Machine Learning | • Artificial Intelligence | • Modern Web |
| • Statistical Data Mining | • Database Management | • Computer Vision | Applications |

PROJECTS

- Image Captioning** | *Python, Pytorch, Flask, Streamlit* Feb 2024 - Apr 2024
- Developed a deep learning (**LSTM, Transformers and RNN**) model in PyTorch to generate accurate and detailed image captions, significantly improving caption **accuracy by 30%**.
 - Designed and optimized models to enhance both caption quality and overall model performance
- Predicting the type of skin cancer** | *Python, Tensorflow, Opencv, Flask, Streamlit* Aug 2022 – Nov 2022
- The approach employs **Convolutional Neural Networks (CNNs)** to meticulously examine and classify distinct forms of skin cancer based on the analysis of outlier lesions in photographs.
 - Using advanced deep learning, the model aims to accurately identify skin cancer types, enhancing diagnostic capabilities in dermatology.
- Handwritten Prescription Recognition in Healthcare** | *Python, Tensorflow, OpenCV, Flask* Mar 2022 – Aug 2022
- Developed a **CNN-LSTM** model that improved multi-line character recognition accuracy by 25%, utilizing the IAM dataset for training.
 - Optimized training outcomes, achieving a **validation accuracy of 86%** and reducing the loss to 0.122
- WebCam Motion Detector** | *Python, OpenCV, Pandas* Dec 2020 – Jan 2021
- Developed a motion detection system using Python, OpenCV, and Pandas to monitor and record time intervals of detected movements from webcam footage, achieving an accuracy rate of over 95% in detecting motion events.
 - Implemented image processing techniques including frame comparison and Gaussian blur, processing 4 frames per second to identify motion, and storing results in a CSV for analysis.
- AccuJob: Job Search Platform** | *Nodejs, Express, MongoDB* Aug 2020 – Nov 2020
- Developed and launched a job search platform for job seekers, combining personalized recommendations based on interests, location, and skillset, along with a unique "recruitment probability" feature that leveraged skills and experience data to estimate the likelihood of getting hired.

PUBLICATIONS

- Akhil Chaitanya Ghanta, Manish.CP, Sanjay Muzumdar, Dr Swarnalata P "Accu Job-Job Search And Optimization Website", International Journal of Creative Research Thoughts (IJCRT), ISSN:2320-2882, Volume.10, Issue 10, pp.c69-c83, October 2022, Available at: <http://www.ijcrt.org/papers/IJCRT2210242.pdf>
- Manish.CP, Akhil Chaitanya Ghanta, Dr J Ravi Sankar, "Medical Diagnosis Of Malaria Using Fuzzy Approach", International Journal of Creative Research Thoughts (IJCRT), ISSN:2320-2882, Volume.10, Issue 10, pp.d782-d787, October 2022, Available at: <http://www.ijcrt.org/papers/IJCRT2210438.pdf>