Bhargav Hemanth Maganti
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EDUCATION

Master's in computer science - Arizona State University **May 2025**
Arizona State University **CGPA: 4.00** **Tempe**
Relevant coursework: Digital Video Processing, Data Processing at Scale, Foundations of Algorithms
B.Tech - Indian Institute of Information Technology **May 2023**
Indian Institute of Information Technology **CGPA: 8.22** **Pune**
Relevant coursework: Big Data Analysis, Artificial Intelligence, Data Structures & Algorithms

TECHNICAL SKILLS

Programming Languages: Python, JavaScript (JS), TypeScript (TS), SQL, C, C++
Technologies: TensorFlow, PyTorch, Keras, Scikit-Learn, Numpy, Pandas, Matplotlib, OpenCV, Hugging Face, OpenAI APIs, Generative AI, LLM Fine-Tuning, Transformer Models
Tools & Platforms: Power BI, VS Code, Linux, Windows, Google Cloud, MySQL, Anaconda
Specializations: Predictive Modeling, Data Visualization, Computer Vision (CV), Natural Language Processing (NLP), Database Development

EXPERIENCE

Research Assistant - Data Science **January 2021 - August 2023**
Indian Institute of Information Technology **Pune**

- Designed and implemented a custom-built DenseNet-121 feature extractor to extract the features from videos.
- Developed and executed a combination of DenseNet-201 and InceptionV3 architectures to detect COVID-19, and Pneumonia from Chest CT scans
- Guided fellow students and juniors to delve into deep Learning by facilitating project work and research work in their respective fields of interest, integrated with deep Learning through Deep Learning for Research (Research Group of **Prof. Sanjeev Sharma**)

Data Labeling Intern - Data Engineer **October 2020 - January 2021**
Wobot.ai **Delhi**

- Utilized CVAT, method classifies objects in images with high precision, optimizing annotation process and boosting recognition accuracy by up to 30%
- Facilitated dataset preparation, facilitating more effective training and analysis in machine learning applications. Gained experience in collaborating within a team of 10, honing skills in time management
- Collaborated with R&D teams to identify and correct data anomalies, ensuring model robustness

ACADEMIC PROJECTS & PUBLICATIONS

Video Anomaly Classification | Link to Paper
Indian Institute of Information Technology

- Developed a multi class classification deep learning model(DenseNet-121) was designed and built to classify videos based on anomalies encountered in UCF crime dataset with 128 hours of videos
- Achieved a benchmark AUC of 83.3% through effective feature extraction and training
- **Skills : Python, PyTorch, SciPy Stack, OpenCV, Hugging Face, Google Colab**

COVID-19 Detection using Deep Learning | Link to Paper
Indian Institute of Information Technology

- Proposed a new Approach for detecting Normal, COVID-19 and Pneumonia patient using only binary classifications from chest CT-Scan
- Trained the network(DenseNet-201 and Inception V3) in two different phases of binary classifications on a dataset with 150k CT images and achieved a global benchmark accuracy of 98.4%
- **Skills :Python, Tensorflow, SciPy Stack, OpenCV, JupyterLab**

ACTIVITIES & ACHIEVEMENTS

- ICCI-2021(International Conference on Computational Intelligence) - Presented a paper on topic "Video Anomaly Classification using DenseNet Feature Extractor"
- Led a team of 9 as a **Deputy Leader** in a study aimed at enhancing data sharing mechanisms for social media through integration of AI and blockchain technologies