Anish Hota

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Experience

Machine Learning Intern May 2023 - August 2023
Shamrock Foods *Phoenix, AZ*

- Applying diverse machine learning and deep learning models to analyze large sets of time series data and forecast product sales with improvements in accuracy by 9%.
- Collaborated with a team of interns to formulate and present multiple solutions, including an Anomaly Detection system, demonstrating the potential for a 15% reduction in customer returns and potential cost savings of $740,000.

Research Aide: Image Recognition — Computer Vision February 2023 - May 2023
Arizona State University *Tempe, AZ*

- Developed an explainable object recognition model using PyTorch to detect frames of interest in real-time video footage, based on identified objects..
- Utilized image annotation tools such as v7labs to extract and annotate images/frames, creating customized datasets that aligned with project requirements.

Software Engineer/Trainee Software Engineer July 2019 - June 2022
HSBC Technology *Hyderabad, India*

- Led a team to deliver critical reports for a global billing system, utilizing Datastage and implementing DevOps practices such as Jenkins, GitHub, and CI/CD pipelines. Handled tariffs for 60,000 customers.
- Developed an end-to-end process using ETL to automate a dashboard for product governance data, automating 15 out of 50+ data sets, with a volume of 13 million records. Reduced manual efforts and space consumption by 27% through the automation of 50+ SQL scripts using DataStage.
- Enhanced SQL code and delivered additional reports to an international European bank. Analyzed and resolved over 40 defects in existing reports, saving over 96 hours of manual work every month.
- Awarded 'Pat on the back' in Q1 2021 and 'Circle of Excellence' award in Q2 2021

Education

Arizona State University Expected May 2024
MSc in Computer Science (GPA: 4.00 / 4.00) *Tempe, AZ*

KIIT University 2015-2019
B.Tech in Computer Science and Engineering *Odisha, India*

Projects

Computer Vision for Medical Imaging | *Python, Pytorch, wandb, d3.js*

- Developed a disease classification model utilizing a Swin transformer to accurately classify 14 different types of diseases in chest X-ray images.
- Built an image segmentation model using UNet and UNet++ architecture in Pytorch to segment out polyps in frames extracted from colonoscopy videos, achieving an impressive intersection over union (IoU) score of 0.72.
- Completed additional projects including instance segmentation of organs in chest X-rays, quality assessment of frames, and polyp detection in colonoscopy videos.

Hand Gesture Digit Recognition with GUI | *Python, Keras, TKinter*

- Designed a GUI application using Python, OpenCV, machine learning, and Tkinter to recognize English handwritten digits, achieving 89% accuracy.
- Re-engineered the project by developing a real-time gesture recognition GUI application using Python, OpenCV, deep learning, and Tkinter. Achieved 82% accuracy in recognizing images of hand gestures representing digits.

Technical Skills

Languages: Python, SQL
Technologies: PyTorch, IBM Datastage, Teradata, d3.js, Git, Control-M, Jenkins, wandb, docker, AWS, Azure
Concepts: Computer Vision, Deep Learning, ETL, CI/CD, DevOps, MLOps