T. HEMANTH KUMAR

COMPUTER SCIENCE INTERN

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OBJECTIVE

Dynamic and results-oriented professional dedicated to ongoing development and education. Proficient in swiftly adapting to challenges and addressing intricate issues with innovative solutions. Devoted to fostering success through commitment, collaboration, and a progressive approach.

EDUCATION

Sathyabama Institute of Science and Technology, Chennai *2022-26*
Bachelor of Engineering in Computer Science CGPA: 8.63

Jaggaiahpet Junior College, Andhra Pradesh *2021*
Board of Intermediate Education Percentage: 93.8

Nagarjuna High School, Andhra Pradesh *2019*
Board of Secondary Education GPA: 9.5

WORK EXPERIENCE

Data Analyst, SkillForge Technologies

- Analyzed large datasets using Python to uncover actionable insights.
- Created compelling visualizations to communicate complex data insights to stakeholders.
- Conducted statistical modeling and predictive analysis to forecast business trends. Automated data collection and reporting workflows, reducing manual effort by 40%.

PROJECTS

Brain Tumor Image Classification

- A deep learning model for automatically classifying brain tumor images from MRI scans. Using Convolutional Neural Networks (CNNs), the model classifies images into categories such as glioma, meningioma, pituitary tumor, or no tumor. The project focuses on preprocessing MRI images, including resizing, normalization, and data augmentation to improve model performance.
- The model is trained and evaluated on a labeled dataset, with performance measured through metrics like accuracy, precision, recall, and F1-score. The goal is to assist in early tumor detection, aiding radiologists in faster and more accurate diagnosis. This approach has the potential to significantly enhance healthcare automation and support clinical decision-making.

Fashion-Minst using Deep Learning

- Deep Learning is a subfield of machine learning related to artificial neural networks. The word deep means bigger neural networks with a lot of hidden units. Deep learning's CNN's have proved to be the state-of-the-art technique for image recognition tasks.
- Keras is a deep learning library in Python which provides an interface for creating an artificial neural network. It is an open-sourced program. It is built on top of Tensorflow.
- The prime objective of this article is to implement a CNN to perform image classification on the famous fashion MNIST dataset. In this, we will be implementing our own CNN architecture.
- The process will be divided into three steps: data analysis, model training, and prediction.

Customer Churn using ANN Classification Model.

- Artificial Neural Network (ANN) to classify and predict customer attrition based on behavioral data, helping businesses enhance retention strategies. By analyzing customer behavior and historical data, the model identifies patterns leading to churn, enabling businesses to take proactive retention measures.
- The project uses features like customer demographics, purchase history, and service usage to train and evaluate the model's accuracy in predicting customer attrition.

JETT-Image Detection/Image Generation

- Image detection is a computer technology that processes images to identify objects within them, while image generation is the use of computer programs to create or modify digital images.
- Also known as object detection, this computer technology uses machine learning to process an image and identify objects within it. Image recognition, photo recognition, and picture recognition are all terms used interchangeably for this process.
- A computer program that uses deep learning algorithms to create digital images from scratch or modify existing ones. AI image generators can create realistic and complex images based on textual descriptions or other input data.

NIMBUS VUE-Weather Application

- Nimbus Vue-Weather is a modern weather application built with Next.js and Node.js, providing real-time weather updates and forecasts. It fetches data from weather APIs to display temperature, humidity, wind speed, and other atmospheric conditions. The app features dynamic location tracking, interactive charts, and customizable weather alerts for an enhanced user experience.
- With Next.js for seamless frontend rendering and Node.js for efficient backend processing, it ensures high performance and scalability. Designed for web and mobile, Nimbus Vue-Weather combines speed, reliability, and a sleek UI.

STRENGTHS AND EXPERTISE

- Problem Solving
- Time Management
- Analytical Skills
- Leadership
- Team Collaboration
- Communication
- Adaptability
- Programming

PROGRAMMING SKILLS

- PYTHON
- JAVA
- C/C++
- JAVASCRIPT/TYPESCRIPT
- SQL
- CLOUD SKILLS
- HTML & CSS

ADDITIONAL INFORMATION

- **Languages:** English, Telugu, Hindi, Tamil.
- **Certifications:** Python for Data Science NPTEL, Oracle Certificate, Digital 101, Matlab.