TELUKUNTLA HEMANTH KUMAR

COMPUTER SCIENCE

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OBJECTIVE

I'm a motivated and detail-focused professional looking to bring my skills and experience to a team where I can make a real impact and continue growing.

EDUCATION

Sathyabama Institute of Science and Technology, Chennai *2022-26*
Bachelor of Engineering in Computer Science CGPA: 8.48

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

Internship, 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

- Brain Tumor Image Classification is a project focused on helping doctors detect brain tumors more accurately and quickly by using AI. The goal is to train a deep learning model that can look at brain MRI scans and classify them into types like glioma, meningioma, pituitary tumor, or no tumor at all. This kind of automation can support early diagnosis and reduce the chances of human error.
- To build the model, we use popular tools like TensorFlow or PyTorch for deep learning, and libraries such as OpenCV, NumPy, and Pandas to process and handle the images and data. For visualizing results and evaluating performance, Matplotlib and Scikit-learn come in handy, while Albumentations helps improve the training data with image augmentation techniques.
- To make the project even better, we can use pre-trained models like VGG16 or ResNet to boost accuracy (a technique called transfer learning). Finally, the trained model can be deployed using simple web apps built with Streamlit or Flask, and training can be sped up using Google Colab with GPU support.

Fashion-Minst Image Classification

- Fashion-MNIST Image Classification is a machine learning project that teaches a model to recognize clothing items like shirts, trousers, and sneakers from simple 28x28 grayscale images. It's a more modern version of the classic handwritten digit (MNIST) dataset and is great for learning image classification.
- The project uses frameworks like TensorFlow/Keras or PyTorch to build and train neural networks. Supporting libraries like NumPy, Pandas, Matplotlib, and Scikit-learn help with data handling, visualization, and evaluation.

Customer Churn using ANN Classification Model

- Customer Churn Prediction is a machine learning project where an Artificial Neural Network (ANN) is used to predict whether a customer is likely to leave a company or service. By analyzing customer data like usage patterns, demographics, and account info, the model helps businesses take action before losing customers.
- The project uses TensorFlow/Keras to build and train the ANN. Pandas and NumPy are used for data handling, while Scikit-learn helps with preprocessing, splitting data, and evaluating the model. Matplotlib and Seaborn are used for visualizing trends and model performance. It's a practical project for understanding how neural networks can be applied to real business problems like customer retention.

NIMBUS VUE-Weather Application

- NIMBUS VUE – Weather Application is a sleek web app that shows real-time weather updates for any city. Users can search for a location and instantly get current weather data like temperature, humidity, wind speed, and conditions using data from the OpenWeatherMap API.
- The app is built with Next.js, React, and Node.js, making it fast, responsive, and reliable. The frontend provides a smooth user experience, while the backend securely handles API requests with the OpenWeatherMap key. It's a practical and modern project that combines clean UI with live data to deliver useful weather insights.

SELinux Policies for System Security Enforcement

- SELinux Policies for System Security Enforcement is a project focused on enhancing system security by implementing and managing SELinux (Security-Enhanced Linux) policies. The goal is to configure and enforce strict security rules to protect system resources from unauthorized access and potential threats.
- The project involves writing custom SELinux policies and modules, testing them in a Red Hat Linux environment, and automating enforcement using scripts. Key tools used include SELinux Policy Source Files, audit2allow for policy generation, and Python for automation scripts.
- This project is an in-depth exploration of system hardening and securing Linux environments, crucial for safeguarding sensitive data and ensuring compliance with security standards.

STRENGTHS

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

PROGRAMMING SKILLS

- Python
- Java
- C/C++
- JavaScript/TypeScript
- R programming
- MongoDB
- C# and .NET
- React and Node.js
- HTML & CSS

ADDITIONAL INFORMATION

- **Languages:** English, Telugu, Hindi, Tamil.
- **Interests:** Fitness, Music, Cricket, Travel
- **Certifications:** Artificial Intelligence with Python Certification**,** Redhat Linux Certification**,** Python for Data Science NPTEL Certification, Oracle Cloud infrastructure Certificate, NASSCOM Digital 101 Certification, Matlab Course Certification.