Bharath Kumar Reddy Vemireddy

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PROFILE

I am an engineering student who is enthusiastic about opportunities that bring out the innovative abilities in me by solving problems. In academics and projects, I learned the skill of solving the complex challenges involved and coming up with impactful solutions.

EDUCATION

- **Lovely Professional University**   Jalandhar, Punjab, India
  Bachelor in Computer Science Engineering; GPA: 8.10   *Pursuing*

PROJECTS

- **Gender and Age Detection using Computer Vision**: Deep Learning Engineer   March 2024
  - **Computer Vision Techniques**: Developed a project using computer vision techniques for gender and age detection.
  - **Deep Learning Models**: Implemented deep learning models using convolutional neural networks (CNNs) to accurately predict gender and age.
  - **Data Preprocessing**: Conducted data preprocessing and augmentation to improve model performance.
  - **Model Evaluation**: Evaluated model accuracy using various metrics such as accuracy, precision, and recall.
  - **Interactive UI**: Utilized Gradio for deployment to create an interactive user interface, enhancing user experience.
  - **AI-powered Systems**: Highlighted the critical role of computer vision in AI-powered systems, marketing optimization, and demographic analysis.
  - **Machine Learning Algorithms**: Applied strong understanding of machine learning algorithms and statistical techniques to enhance model performance.

- **Quick Foods Mobile App**: Developer   Curretly working
  - **Frontend Development**: Building the user interface using Kivy, creating a responsive and intuitive design for seamless user interaction.
  - **Backend Integration**: Developing the backend with Flask, managing user requests and handling data processing for meal orders.
  - **Search Functionality**: Implementing search features to allow users to find meals by building, block, name, category, and canteen.
  - **Scrollable Layouts**: Designing a scrollable layout to display meals efficiently, ensuring a smooth and engaging user experience.
  - **Error Handling**: Integrating error handling mechanisms to manage server downtime and display appropriate messages to users.
  - **Admin Interface**: Developing an admin interface for canteen staff to manage food items and view orders, enhancing operational efficiency.

PROGRAMMING SKILLS

Programming Languages: Python, SQL, JavaScript, C++, Java
Data Manipulation Analysis: Pandas, NumPy
Data Visualization: Matplotlib, Seaborn
Machine Learning Deep Learning: Scikit-learn, TensorFlow, Predictive Modeling, Computer Vision (OpenCV), NLP (NLTK)
Statistical Concepts: Statistical Analysis, Probability, Model Evaluation
Software Development: Full-Stack Development (Kivy, Flask), UI/UX Design, Error Handling
Soft Skills: Communication, Team Collaboration, Problem-Solving