Bala Sumanth Reddy Manda

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Machilipatnam, AndhraPradesh - 521150, India

CARRIER OBJECTIVE

Aspiring software engineer with a strong foundation in software development, machine learning (ML), deep learning (DL), AI, cloud computing, and big data. Passionate about building innovative and high-quality solutions while working in collaborative, agile environments. Eager to continuously learn, apply cutting-edge technologies, and contribute to impactful projects in a dynamic global organization.

EXPERIENCE

- **Internpe [🌐]** *09 2024- 10 2024*
  Intern Remote
  - Developed a diabetes detection model with [specific achievement], achieving 75 percent in improving early diagnosis accuracy.
  - Implemented machine learning techniques for car health detection in the second-hand buying process, enhancing prediction reliability by 89 percent.
  - Conducted analysis on IPL match data, identifying key factors for game outcome predictions, increasing prediction accuracy to 79 percent.
  - Designed a breast cancer detection system, improving classification performance by 97 percent, and presented findings to the team, receiving positive recognition for contribution.

EDUCATION

- **Amrita Vishwa Vidyapeetham** *2022 - 2026*
  B Tech in Computer Science and Engineering [Artificial Intelligence] Amaravati, India
  * GPA: 8.73/10.00
- **Sri Chaitanya** *2020 - 2022*
  Intermediate Education Vijayawada, India
  * Grade: 80.1%

PROJECTS

- **Advanced Prompt Engineering with GPT: Leveraging OpenAI for Custom Content Generation** *09 2024*
  Tools: OpenAI API, OpenAI GPT Models, Jupyter Notebooks, pandas, nltk
  * Engineered an adaptive quiz question creator that generated up to 50 unique questions per session based on real-time inputs; streamlined exam creation process saved users approximately 10 hours of manual work weekly..
  * Produced a responsive AI-driven quiz question generator that adapts to user input; the tool has been integrated into the learning management system.
  * Created a Python script that adjusts the number of questions and potential answers, ensuring flexibility and adaptability for different users.
  * Applied API integration methods to seamlessly interact with the OpenAI GPT-3 model for content generation.
- **Liver Disease Detection Using Comparative Classification Algorithms** *06 2024*
  Tools: Python, Pandas, NumPy, Sci-kit Learn, Matplotlib, Hyperparameter Tuning, Cross-Validation, Random Forest, Logistic Regression
  * Devised a machine learning model that predicts liver disease with 95 percent accuracy using medical datasets and data preprocessing techniques.
  * Evaluated model performance using accuracy, precision, recall, and F1-score, achieving a 10 percent improvement after fine-tuning.
  * Created data preprocessing pipelines to handle missing values and normalize features, ensuring high-quality input data for model training.
  * Applied hyperparameter tuning and cross-validation techniques to optimize model performance and reduce overfitting.

Skills

- **Programming Languages:** Python, C, Java, SQL
- **Web Technologies:** HTML, CSS, Js
- **Database Systems:** SQLite, MySQL
- **Data Science & Machine Learning:** TensorFlow, Keras, Scikit-learn, NumPy, Pandas
- **Cloud Technologies:** Google Compute Engine, Google App Engine (GAE), Google Cloud Platform
- **Specialized Area:** Machine Learning, Artificial Intelligence, Cloud Computing
- **Mathematical & Statistical Tools:** Matlab
- **Other Tools & Technologies:** Cisco Packet Tracer, Wireshark

Professional Memberships

- **IEEE**, Membership ID: 100009184 *02 2024 - Present*

Certifications

- **Databases and SQL for Data Science with Python** *IBM*
- **Oracle Cloud Infrastructure 2024 Generative AI** *Oracle*
- **Advanced Learning Algorithms by Coursera** *Stanford University*
- **Supervised Machine Learning: Regression and Classification** *Stanford University*

Additional Information

Languages: English (Full Professional Proficiency), Hindi (Limited Working Proficiency), Telugu (Native)