

Bandi Sri Akshaya

+91-8712159309 bandisriakshaya@gmail.com linkedin.com/in/bandisriakshaya

Education

Institute of Aeronautical Engineering

Bachelor of Technology in Computer Science and Engineering

Hyderabad, Telangana, India

2021 – 2025

Work Experience

Research Intern – University of Malaya, Malaysia

February 2025 - April 2025

Enhancing Chronic Kidney Disease Detection Using Machine Learning

- Developing a hybrid machine learning model integrating Random Forest and XGBoost to enhance CKD detection accuracy.
- Implementing Explainable AI (XAI) techniques such as SHAP to improve model interpretability for clinicians.
- Optimized ensemble weighting through empirical validation, achieving improved model performance with a 39:61 ratio favoring XGBoost.

Projects

ML Driven Prediction of Chronic Nephrology-Related Diseases

March 2024

Transformers, XGBoost

- Developed predictive models using XGBoost and Transformers to enhance early detection and intervention strategies for chronic nephrology-related diseases, achieving an overall accuracy of 98.9%.
- Applied advanced data preprocessing and feature engineering techniques to optimize performance and robustness.
- Implemented model evaluation metrics, including AUC-ROC and precision-recall curves, ensuring reliable clinical applicability.

Compass-A college interface app

June 2023

Figma, fullstack

- Designed and implemented MongoDB (NoSQL) and SQL database schemas to manage student data, improving data retrieval speed by 30%.
- Designed an intuitive user interface, increasing user engagement and interaction with college resources by about 40%.
- Integrated SQL databases for robust data management, improving data retrieval efficiency by approximately 30%.

Technical Skills

Languages: Python, Java, Java Script, SQL, HTML, CSS.

Technologies: TensorFlow, Figma, Canva, Bootstrap.

Libraries & Frameworks: NumPy, Pandas, Matplotlib, Seaborn, Scikit-Learn, Keras.

Tools: Git, GitHub, VS Code, Jupyter Notebook.

Achievements

HSBCxT-HUB Hackathon

August 2024

Top 100 out of 4,000+ participants

- * Recognized for Fraud Detection using Random Forest Algorithm on HSBC Dataset.
- * Achieved 95% overall accuracy.

National Entrepreneurship Challenge (NEC), IIT Bombay

February 2024

All India Rank 4 out of 800+ participating colleges

- * Demonstrated strategic thinking and problem-solving in a national-level entrepreneurial competition.
- * Led and coordinated multiple challenge rounds across marketing, innovation, and growth strategies.

Certifications

Data Science Using Python by The National Small Industries Corporation LTD

July 2023