Kesava Datta

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Education

Woxsen University, Hyderabad 2023 – 2027
Bachelor of Technology in Computer Science Engineering CGPA: 8.74

Experience

- **Research Intern** IIIT Ranchi
  Analyzed MIMIC-IV dataset to identify diabetic patients in ICU; built a compact digital twin with explainable AI, boosting prediction interpretability by 25% and reducing misclassification rates by 18%.
- **Research Intern** IIT Hyderabad
  Classified three crop types across Madhya Pradesh using advanced transfer learning model (MSTT), achieving 92% accuracy in satellite imagery analysis and improving crop yield predictions by 15%.
- **Machine Learning Engineer** Logstrike
  Benchmarked models across hardware chips; developed MCP servers and Dockerized applications, cutting deployment time by 40% and enhancing system scalability by 30%.
- **Research Intern** GD Goenka University
  Developed ML components for emotion detection from vital signs, converting data to symbols for frontend, increasing interaction accuracy by 30% and user satisfaction scores by 22%.
- **Research Intern** Ganpat University
  Created stop word detection algorithms for Telugu, Hindi, and English, optimizing NLP pipelines, reducing processing time by 15% and improving text analysis efficiency by 20%.

Technical Skills

- **Programming Languages:** Python, SQL, HTML, CSS
- **Frameworks & Libraries:** TensorFlow, PyTorch, Scikit-learn, OpenCV, NLTK
- **Core Expertise:** Data Structures & Algorithms, ML, Deep Learning, NLP, Computer Vision, IoT, Generative AI
- **Specialized Models:** CNNs, LSTMs, GANs, MSTT, Transformers
- **Soft Skills:** Problem-Solving, Communication, Team Collaboration, Critical Thinking, Time Management

Projects

- **Predictive Modeling of RNA Splicing Variance Using AI** Git
  Built AI pipeline to detect RNA splicing events from transcriptomic data; integrated explainable AI for patterns in disorders like hemophilia and thalassemia.
- **Pantry Chef (Food Preparation Website)** Web-Link
  Created web app with HTML, CSS, Python for image-based ingredient detection and recipe suggestions, streamlining planning for 50% faster meal prep and supporting over 200 recipe variations.
- **Forensic Sketch Generator** Git
  Developed GAN models for text-to-sketch generation of black-and-white portraits, achieving 85% similarity to references and accelerating forensic workflows by 35%.
- **DroneGo (AI-Driven Drone Delivery and Path Optimization)** Git
  Designed AI for drone navigation with real-time obstacle detection via deep learning, optimizing routes to reduce flight risks by 35% and delivery times by 28%.

Patents

- **Multi-Functional Dynamic Wireless Charging System for Electric Vehicles** Application No: 202441067024 A
- **Multi-Mode Cleaning System** Application No: 202541037701 A
- **Wearable Support Device for Fall Prevention and Mobility Assistance** Application No: 202541065085 A
- **Nutrient Delivery System for an Agriculture Field** Application No: 202541065993 A