Kesava Datta

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Education

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

Experience

- **ML Engineer** Logstrike
  Developed and deployed AI/ML models for real-time data analysis, enhancing operational efficiency.
- **Research and Development Intern** Dtyle.Ai
  Worked on AI and computer vision tasks as part of the research team.
- **Research Intern** GD Geonka University
  Developed Empath, an AI that uses your body's signals to understand your emotions and make digital conversations better.
- **Research Intern** Ganpat University
  Conducting research on Stop Word Identification using NLP and Unsupervised Approaches; preparing a research paper.

Technical Skills

- **Programming Languages:** Python, SQL, HTML, CSS
- **Frameworks & Libraries:** TensorFlow, PyTorch, Scikit-learn, OpenCV, NLTK
- **Core Expertise:** Data Structures & Algorithms, Machine Learning, Deep Learning, Natural Language Processing (NLP), Computer Vision, Internet of Things (IoT)
- **Specialized Models:** Convolutional Neural Networks (CNNs), Long Short-Term Memory (LSTM) Networks
- **Soft Skills:** Problem-Solving, Communication, Team Collaboration, Critical Thinking, Time Management

Projects

- **Pantry Chef (A website for food)**
  A website designed for food preparation that automatically detects ingredients through images and suggests possible recipes accordingly.
- **Foreign-Sketch-Generator**
  Created a forensic sketch generator using GANs, CLIP, and DeepFace; built a Flask web interface with Sentence Transformers for text-to-image embedding; trained on CUFS dataset for realistic outputs.
- **DroneGo (AI-Driven Drone Delivery and Path Optimization)**
  Developed AI algorithms for autonomous drone navigation with real-time obstacle detection using deep learning-based computer vision.

Patents

- **Multi-Functional Dynamic Wireless Charging System for Electric Vehicles**
  Application Number: 202441067024 A
  - Designed a wireless EV charging system enabling dynamic on-road charging.
  - Integrated AI-based energy distribution algorithms to optimise power consumption.

- **Multi-Mode Cleaning System**
  Application Number: 202541037701 A
  - Multi-Mode Cleaning System combines extendable mechanical scrubbers and suction to clean both sewage lines and surfaces efficiently.
  - It features automated debris lifting, waste segregation, and storage for improved cleaning and disposal.

- **Wearable Support Device For Fall Prevention And Mobility Assistance**
  Application Number: 202541065085 A
  -A smart wearable waist device for fall prevention and mobility assistance using sensors, motorised wheels, and extendable supports.
  -Integrated facial expression analysis, motion detection, and an inflatable fall-cushioning system for real-time safety response.

- **Nutrient Delivery System For An Agriculture Field**
  Application Number: 202541065993 A
  -The system integrates a biodegradable sensor array with a central control unit to collect and process soil data
  -It uses a defined method of data collection and nutrient mixing to deliver the specific blend to the crops