Kesava Datta

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Education

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

Experience

- **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 Executive** Civi Glo-Innovations
  Designed and developed innovative machines tailored for smart city applications.
- **Python Developer** Cosmic3D-Printers
  Developed scripts to automate 3D print processes and implemented real-time print job monitoring.
- **President, Ankur Incubation Club (IIC)** Woxsen University
  Leading entrepreneurship initiatives through events and workshops; collaborating with faculty and industry experts to mentor student startups.
- **Executive, Film Club** Woxsen University
  Organized 15+ film screenings; managed event logistics with 90% attendance; coordinated expert talks with media professionals.

Technical Skills

- **Programming Languages:** Python, Java, R, SQL, HTML, CSS
- **Software Tools:** Blender, Maya, Unity, Adobe Illustrator, Photoshop, InDesign, Adobe XD
- **Expertise:** Data Structures & Algorithms, NLP, Computer Vision, Machine Learning, Deep Learning, Internet of Things (IoT), Federated Learning.

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 optimize 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.

Research (Ongoing)

- **Federated Learning**
  Implemented decentralized federated learning models with differential privacy; researched adaptive feature selection to improve accuracy.
- **Statistical Optimization**
  Investigating truncated distribution models along the Bonferroni curve for big data analytics; applied probability theory to enhance large-scale data mining efficiency by 20%.

Certifications

- Google: Crash Course on Python
- IBM:
  - Introduction to Deep Learning & Neural Networks with Keras
  - Machine Learning with Python
  - Deep Learning with Keras and TensorFlow
- DeepLearning.ai:
  - Introduction to TensorFlow for AI, Machine Learning, and Deep Learning
  - Probability & Statistics for Machine Learning & Data Science
  - Generative AI for Everyone