

Dharaneesh Dhupam

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Education

Indian Institute of Information Technology, Kurnool CGPA: 7.19 / 10 <i>Bachelor of Technology (B.Tech) in Electronics & Communication Engineering with a Minor in Machine Learning & Data Science</i>	2020 – 2024
Dr. B.R. Ambedkar Open University Hyderabad, India CGPA: 7.45 / 10 (First Division) <i>Bachelor of Arts in Economics, Sociology & Public Administration</i>	2022 – 2025

Research Experience

Founder & CEO <i>Systems Change, Inc. (Incorporated Sept 2025, Delaware) sysc.land</i>	Oct 2023 – Present <i>Remote</i>
<ul style="list-style-type: none">Founded and led development of a decentralized property transaction platform enabling users to find, buy, sell, and manage land records securely online.Designed and implemented cryptographically verifiable records using Post-Quantum Digital Signatures (ML-DSA) for immutable, tamper-proof storage.Built interactive geospatial mapping and property visualization features with remote sensing capabilities.Architected backend infrastructure with Django, Kubernetes, and GCP, ensuring scalability and fault tolerance; moved to a decentralized design using IPFS storage.Leading go-to-market and government integration strategy for next-generation property administration systems.<i>Tech Stack: Python, Django, JavaScript, HTMX, PostgreSQL, FrankenUI, Kubernetes, GCP</i>	
Research Intern <i>IIIT Kurnool, Dept. of Computer Science</i>	Dec 2023 – Apr 2024 <i>Kurnool, India</i>
<ul style="list-style-type: none">Developed a robust AI system for detecting and classifying wheat crop diseases using deep learning techniques.Implemented and fine-tuned models like VGG19 and ResNet50, achieving 96% accuracy in image-based disease identification to aid farmers in reducing yield losses.	

Selected Projects

AI-Assisted Blog Platform (seaofus.com) <i>Django, HTMX, Llama 3.1, Flux, Docker</i>	Sep 2024 – Apr 2025
<ul style="list-style-type: none">Designed and developed a full-stack social publishing platform to democratize content creation, offering both public publishing tools and a private writing environment with an AI companion.Integrated gpt-oss-120b LLM for automated text generation and Flux for on-demand image creation via APIs.Implemented a clean writing experience using Quill WYSIWYG (What You See Is What You Get) editor and HTMX for dynamic, server-side interactions without page reloads; doubles as a private writing space.	
Land Records Data Automation <i>Python, Pandas, Selenium</i>	
<ul style="list-style-type: none">Automated a manual government land-survey data entry process for a village administration office, reducing a 3–4 week task to 4 days (6× speedup) through 2 days of programming and 2 days of implementation.Cleaned and normalized messy dataset using Pandas by detecting name patterns and inconsistencies.Developed a hybrid Selenium script to populate forms and handle edge cases/buggy interactions in a legacy web portal, significantly streamlining a bureaucratic workflow.	

Preprints / Working Papers

Dhupam, D. (2025, July 26). PQC-VE: A Post-Quantum Framework for End-to-End Verifiable Electronic Voting. TechRxiv. 10.36227/techrxiv.175234511.12096363/v2
Dhupam, D. (2025, Nov 26). HyARC: A Hybrid Algorithm for Secure Storage of High-Value Secrets. TechRxiv. 10.36227/techrxiv.176420154.45562220/v1
Dhupam, D. (2025, July 9). The Theory Of Replaceability: An Evolutionary Mechanism Influencing Differential Variability. 10.31219/osf.io/9rmf5_v2

Thesis

Dhupam, D. (2024, May). *Post Quantum Cryptography based Land Records Management System* (Undergraduate Thesis, IIITDM Kurnool). [10.31237/osf.io/nhwks_v1](https://doi.org/10.31237/osf.io/nhwks_v1)

Languages & Skills

Languages: Python, JavaScript, SQL, C, HTML, CSS, Bash

Frameworks/Tools: Django, HTMX, Docker, Tailwind CSS, Kubernetes, Git, Nginx, Gunicorn, Pandas, PyTorch, TensorFlow

Cloud/Infra: GCP, AWS, Linux (Debian)

Certifications

Harvard University: CS50's Introduction to Artificial Intelligence with Python

Yale University: Narrative Economics

Awards

Winner, Project Expo 2023: Built a GSM-based GPS tracking device using Arduino (IIITDM Kurnool Open Day).