

# Dharaneesh Dhupam

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## Education

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

## Experience

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

## Projects

<b>AI-Assisted Blog Platform (seaofus.com)</b>   <i>Django, HTMX, Llama 3.1, Flux, Docker</i>	Sep 2024 – Apr 2025
<ul style="list-style-type: none"><li>Built a full-stack blogging platform from scratch (similar to Medium) using Python, Django, and FrankenUI.</li><li>Integrated <b>Llama 3.1</b> for automated text generation and <b>Flux</b> for on-demand image creation via APIs.</li><li>Implemented a clean writing experience using Quill WYSIWYG editor and <b>HTMX</b> for dynamic, server-side interactions without page reloads; doubles as a private writing space.</li></ul>	
<b>Land Records Data Automation</b>   <i>Python, Pandas, Selenium</i>	
<ul style="list-style-type: none"><li>Automated a manual government land-survey data entry process for a government village administration office, reducing a 3-4 week task to four days (<b>6x speedup</b>).</li><li>Cleaned and normalized messy dataset using Pandas by detecting name patterns and inconsistencies.</li><li>Developed a hybrid Selenium script to populate forms and handle edge cases/buggy interactions in a legacy web portal, significantly streamlining a bureaucratic workflow.</li></ul>	

## Preprints / Working Papers

**Dhupam, D.** (2025). *PQC-VE: A Post-Quantum Framework for End-to-End Verifiable Electronic Voting*. TechRxiv.  
[doi.org/10.36227/techrxiv.175234511.12096363/v2](https://doi.org/10.36227/techrxiv.175234511.12096363/v2)

**Dhupam, D.** (2025). *The Theory Of Replaceability: An Evolutionary Mechanism Influencing Differential Variability*.  
[doi.org/10.31219/osf.io/9rmf5\\_v2](https://doi.org/10.31219/osf.io/9rmf5_v2)

## Thesis

**Dhupam, D.** (2025). *Post Quantum Cryptography based Land Records Management System*. Undergraduate Thesis.  
[doi.org/10.31237/osf.io/nhwks\\_v1](https://doi.org/10.31237/osf.io/nhwks_v1)

## Skills & Certifications

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**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

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

**Yale University:** Narrative Economics

## Awards

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

**Winner:** Vigilance Awareness Week Quiz.