

# Parth Mital

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🌐 linkedin.com/in/parthmital    🌐 parthmital.github.io/Portfolio

## Education

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**Vellore Institute of Technology (VIT)** Vellore, India  
**B.Tech, Computer Science and Engineering** 2023 – 2027  
**CGPA:** 8.66 / 10

**Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Computer Networks, Database Systems, Computer Architecture, Compiler Design, Artificial Intelligence, Cloud Architecture

## Technical Skills

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**Languages:** Python, Java, C, C++  
**Python:** PyTorch, YOLOv8, Transformers, Pandas, NumPy, scikit-learn, Selenium, TabNet  
**Frontend & UI:** HTML5, CSS3, Tailwind CSS, JavaScript, TypeScript, React.js, Next.js  
**Backend & Databases:** REST APIs, PostgreSQL, SQL, MongoDB, Prisma ORM  
**Domains:** Full-Stack Development, Automation & Web Scraping, Machine Learning, Natural Language Processing, Computer Vision, Systems Performance

## Projects

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**PhytoScan — Multimodal Plant Health Diagnostic System** (Computer Vision) Mar 2025 – Apr 2025  
🐙 github.com/Mo-Kash/PhytoScan

- Developed a multimodal plant health diagnostic system combining images (disease/insect) and symptom text data, with rule-based fusion of visual and textual model outputs for final disease/insect status.
- Annotated 100 images (50 disease, 50 insect) manually using CVAT for segmentation and object detection.
- Trained YOLOv8s-seg for crop disease segmentation, YOLOv8s for insect detection, and TabNet on textual symptom data for disease and insect classification.

**PDF Renamer — Transformer Title Generator** (Natural Language Processing) Dec 2025 – Jan 2026  
🐙 github.com/parthmital/PDF\_Renamer

- Manually created a dataset of 315 PDFs to fine-tune a T5-small seq2seq model for automated title generation.
- Preprocessed PDF text, applied data augmentation, and trained the model using Hugging Face Transformers.
- Achieved 20% exact match, 28% BLEU, 44–45% ROUGE.

**Automated Course Material Aggregation Pipeline** (Automation & Web Scraping) Nov 2025 – Dec 2025  
🐙 VTOP-Scraper    🐙 Folder-Details    🐙 PDF-Converter

- Automated download and renaming of 2000+ course materials on VIT's portal using Selenium.
- Generated CSV summaries computing total pages/slides, file counts, and medians per subfolder.
- Converted 200+ Word/PowerPoint files to PDF via COM automation for standardizing materials.

**OS Debloating Performance & Privacy Study** (Systems Optimization) Oct 2025 – Nov 2025  
🐙 github.com/parthmital/Operating\_System\_Debloating

- Conducted a VM-based study on multiple Windows and Linux OS builds to evaluate debloating effects.
- Measured boot time, idle RAM, CPU, disk IO, and outbound network connections across 30+ runs per OS.
- Reduced idle RAM by 15–60%, boot time by 10–48%, and blocked 50–100% of unnecessary telemetry endpoints.

**Socially — Social Media Platform** (Full-Stack Web Development) Aug 2025 – Sep 2025  
🔗 socially-henna.vercel.app    🐙 github.com/parthmital/Socially

- Frontend: Next.js, Typescript, Tailwind CSS, Shadcn/ui.
- Backend & services: Next.js API routes, Prisma ORM, PostgreSQL, Clerk, Uploadthing.
- Features: User profiles, posts, likes, comments, follow system, and media uploads.

## Experience

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**Web Development Intern — Hiraeth Tech** Jun 2025 – Jul 2025  
Vadodara, India

- Developed 5+ responsive WordPress sites using Elementor and custom CSS.
- Optimized 40+ media assets, reducing page load times by 30%.