

# Pranjal Sonawane

Portfolio Website : [Nullblocks.Study](#)

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🐙 [GitHub Profile](#)  
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## EDUCATION

- **Pillai HOC Collage of Engineering and Technolgoy** 2021-24  
*Actively Research in [ML-based ransomware detection](#) for a major project .*
- **Government Polytechnic Mumbai —Diploma** 2018-2021  
*Major Project was based on NLP i.e [Faculty Evaluation System](#).*

## PERSONAL PROJECTS

- **RansomAware** Cyber Security  
*Tool which perform Dynamic analysis and identify ransomware similar as VirusTotal*
  - Tool allows users to upload files for analysis and checks with signature repository. The application executes the file in a virtual environment and Cuckoo Sandbox .
  - It then extracts API and system calls and passes them to a machine learning model to identify the ransomware and their family.
  - The application informs the results, including insightful information from dynamic analysis .[\[Code & Blog\]](#)
- **Dyanodaya** AI & LLM  
*An AI based system which explain topic in easy way and create diagrams from stable diffusion*
  - Led an innovative project leveraging Generative AI to enhance student learning .
  - Incorporated diagrams and concise summaries of textbook points for easy comprehension.
  - Technology Used: Python, Hugging Face, LLM, ngrok . [\[Code & Blog\]](#)
- **Detection of Phishing website** ML  
*A system used find phishing website and aware user with help of chrome extension .*
  - Utilized diverse ML models to detect phishing URL and develop extension to ideatify & block phishing website .
  - Employed Pi-hole to effectively block 90% ads, reducing user's exposure to potential cybersecurity risks.
  - Technology Used: Python, Raspberry Pi, Flask. [\[Code & Blog \]](#)
- **Faculty Evaluation System** NLP  
*Major Project of Diploma used by HOD's to evaluate faculty*
  - Utilized NLP for classifying faculty reviews as positive, negative, or neutral, and performed exploratory analysis .
  - Developed an automatic report generator to summarize sentiment and provide insights from the reviews.
  - Technology Used : Python, NLTK, Heroku .[\[Code & Blog \]](#)

## EXPERIENCE

- **Research Intern** July 2023 - Present  
*Reva Tech* Hybrid
  - Developed an AI-powered system that automatically analyzes medical reports to generate summaries and identify key findings.
  - The system uses a Large language model and a Llama-Index to process and understand the complex language used in medical reports.
  - The system features a conversational interface that allows users to chat with the chatbot to ask questions and get information they needed in a convenient and user-friendly way.

## TECHNICAL SKILLS AND INTERESTS

**Languages:** Python, Golang, Javascript, ShellScript

**Tools:** Netlify, AWS, Docker, Linux, Git, Github

**Frameworks:** Flask, FastAPI, Htmx, Hugo

**Databases:** MongoDB, Firebase, Mysql , Postgress SQL

**Areas of Interest:** Web Development, Cyber Security , Networking , Machine Learning

**Soft Skills:** Problem Solving, Self-learning, Presentation, Adaptability

## ACHIEVEMENTS

- **Hackoverflow top 10 Team for project [MediFund](#) (Web3)** Feb 2023
- **Selected for amazon ML summer school 2022** July 2022