

# Daksh Agiwal

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## SUMMARY

I have a strong passion for **machine learning** and **data science** along with experience in **arduino**, **ROS**, **web development** and am eager to make a positive impact in these fields. During my academic journey, I have had the opportunity to gain practical experience through **multiple internships** and was part of **student projects** as well. These experiences have equipped me with valuable skill sets and insights in both research and industry settings. I have developed a knack for **solving complex problems** and delivering tangible results.

## EXPERIENCE

### Summer Intern(EID) at GE Healthcare

Bangalore, Ongoing

- The EID(Early Identification) internship program at GE Healthcare is designed to provide interns with hands-on experience in the healthcare technology industry. Interns work on **real-world projects** alongside experienced professionals, gaining exposure to **cutting-edge technologies** and methodologies.
- Contribute to meaningful projects that impact patient care and medical practices through **software development**, and **healthcare innovation**.

### AI Intern at Jupiter AI

Jun 2023, Nov 2023

- Jupiter AI Labs Inc. is Product and service development **Generative AI company** for SMBs and startup to help build systems that learn how to solve challenges.
- Worked on developing **custom LLM's and rasa chatbots, utilizing API's** for law-firm clients.
- Worked on developing a **multimodal chatbot**(STD awareness) for nigerian clients in their **local language**(haussa,igbo,yoruba).
- Developed an application for **lawn area estimation** from satellite images through **semantic segmentation** models as a **POC**.

### AI Research Intern at Gropare

Jun 2023, Nov 2023

- Gropare is a B2B platform **leveraging technology** to deliver the freshest harvest-to-retail in the industry.
- Worked on developing **machine learning algorithms** for **computer vision** based applications. Developed object detection algorithms and pipelines to detect objects in low light settings.

### ML Intern at Feynn Labs

Mar 2023, May 2023

- Feynn Labs is an Artificial Intelligence company currently focusing on **AI integration** in Small/Medium Businesses.
- Worked on several **POC's** like **retail price optimization, EDA of electric vehicle market**.

### Coding Subsystem Member at RoboManipal

Apr 2022, Apr 2023

- RoboManipal is the **official robotics team** of Manipal Institute of technology, Manipal.
- Worked and implemented various projects using **arduino, ROS, OpenCV and machine learning**. The team focusses on an **international competition** called **ABU Robocon**.
- Helped in the **organizing** of **robowars** in the annual **technical fest(techtatva)**.

### Working Committee member at ESOM(Economics and Finance Society Of Manipal)

Dec 2021, Aug 2022

### AI Taskphase Member at MANAS

Dec 2021, Apr 2022

- Implemented various **ML models** starting from **regression, classification to decision trees, clustering and finally moving onto deep neural networks**. Also explored fields of **ROS** and **openCV**.

## PROJECTS

### CropWise

Langchain, Streamlit, bs4, Flask, HTML, CSS, JavaScript, TensorFlow, Postgres

[Github Source Code](#) [LinkedIn](#)

- Developed an **end to end project** for the flagship **Manipal Hackathon** aimed at helping farmers improve **agricultural yield** through **tech**.
- The application has various components like **chatbot, AI disease detection model, community forum, dynamic scraping of govt schemes** etc.

## Converge Hackathon - Future of retail     *Python, Langchain, Streamlit, bs4, Pinecone, Postgres*     [Github Source Code](#)

- As part of the **converge hackathon** organized by **Walmart**, developed an **AI chatbot** trained on the **webscraped data** of customer service of Walmart.
- Also integrated my chatbot with **postgres** which maintained a **stock** of items and **transaction history**.

## Explainable AI     *Flask, HTML, CSS, JavaScript, TensorFlow, MySQL, PyTorch, Pytesseract*     [Github Source Code](#) [LinkedIn](#)

- Developed an **end to end project** on **explainable AI** (healthcare industry) for the final round of the **GE Healthcare Precision Challenge**.
- The application includes multiple features like **ASR, Diabetic Retinopathy Model, Explainable text gen with random forests, OCR report upload, location API**.
- Algorithms like **random forest, EfficientNet, Layer-Wise-Relevance Propagation(LRP) and OCR pipelines** have been implemented.

## Multimodal Obscenity Detection     *Python, Tensorflow, Pytorch, CNN, NLP*     [Github Source Code](#)

- As part of the **Kavach internal hackathon** held at my college **designed an ML model** which can **detect obscene image, video, audio and text**.
- Objective of this cybersecurity hackathon was to **flag obscene text, audio and video dynamically**.

## Retail Price Optimization     *Python, sklearn, pandas, numpy, seaborn, matplotlib*     [Github Source Code](#)

- As part of my internship at Feynn labs designed an **ML model** for **retail price optimization** with the aim of it being **integrated** into small scale businesses.
- After **training** of the ML Model the retail prices **dynamically fluctuate(predicted prices)** based on **multiple parameters** in order to maximize profits.

## Tennis ball tracking using openCV     *Python, OpenCV, YOLO*     [Github Source Code](#)

- As part of my taskphase at MANAS using the **feed of a tennis match** developed an **algorithm** to be able to **track** and **plot** out the **trajectory** of the ball.

## To Do List Website     *Express.js, EJS, mongoose, CSS, Bootstrap*     [Github Source Code](#)

- Developed a website to **maintain a To Do List** leveraging the **latest web development frameworks**

## EDUCATION

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<b>Manipal Institute of Technology</b> <i>BTech in Information Technology</i>	Manipal, Karnataka, India 8.07   2021-25
<b>DPS Bangalore East</b> <i>Class 12 &amp; 10(CBSE)</i>	Bangalore, Karnataka, India 95.6% & 93.2%   <i>Graduated in 2021 &amp; 2019</i>

## ACHIEVEMENTS

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- **Electropattern arduino coding contest** - Came **third** in an arduino coding contest held during techtatva(annual technical fest of manipal) out of **100 + teams**.
- **Toyota Smart Roads Hackathon finalist - Finalist(top 10)** in the Toyota Smart Roads Hackathon out of **600+ teams** held at **R.V college of engineering**.
- **Finalist at GE Healthcare precision challenge** - Qualified for the **finals(top 10)** out of **1000 + participants** in the GE Healthcare precision challenge where we developed an **end to end project** on **explainable AI** . [LinkedIn Post](#)
- **Winner of Manipal Hackathon 2023** - Our team came **first** out of **1200 + participants** **nation wide** in the **flagship hackathon** of our college techfest. [LinkedIn Post](#)
- Completed **grade 5** in **Piano** from the **Trinity College of London**.