

# Md Abrar Al Zabir

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## EDUCATION

### The University of Texas at Dallas

Bachelor of Science in Computer Science

Richardson, TX / United States

Present – May 2028

- Awarded the academic excellence scholarship (AES) renewable for 4 years based on outstanding academic performance.

## SKILLS

**Languages & Technologies:** Python, C++, JavaScript (Core & ES6+), HTML, CSS, ML/DL

**Frameworks & Libraries:** React.js, Express.js, Node.js, Three.js, Tailwind CSS, NumPy, Scikit-learn, Pandas, Matplotlib, OpenCV, TensorFlow, Keras, LangChain

**Databases & Tools:** MySQL, MongoDB, RESTful APIs, AWS, Git, GitHub, Firebase, Fast API, Flask

## EXPERIENCE

### Software Engineer | Machine Learning

AIS UTD

Richardson, TX / United States

February 2025 – Present

- Developed an AI-powered eye health assistant capable of classifying diseases from different eye scans, and delivering personalized eye care suggestions.
- Trained and finetuned an InceptionV3 deep learning model using TensorFlow and Keras, with preprocessing pipelines built using NumPy, Pandas, and OpenCV, and data augmentation handled via Scikit-learn to enhance model generalization, achieving 96.43% test accuracy.
- Built a context-aware AI chatbot utilizing LangChain with a RAG pipeline on the Mistral-7B LLM, on a domain-specific medical knowledge database.
- Developed a responsive frontend using React.js and Tailwind CSS, and implemented RESTful APIs to support backend and model inferences.

### Software Engineer | Full-Stack Developer

Himmels Zenith

Dhaka, Dhaka / Bangladesh

December 2024 – February 2025

- Led the development utilizing React.js and Tailwind CSS to develop a fully responsive frontend, employing Context API for global state management.
- Built a robust backend with Node.js, Express, and MongoDB Atlas to support dynamic data management and API integration.
- Designed and implemented RESTful APIs to enable CRUD operations, ensuring efficient data handling and scalability.
- Integrated various payment methods including Stripe and bKash and used Axios for seamless communication between frontend and backend.

## PROJECTS

### Potato Disease Classification Model

[github.com/ClosetCoderSad/ML-DL-Projects](https://github.com/ClosetCoderSad/ML-DL-Projects)

February 2025 – February 2025

- Utilized TensorFlow to train a CNN for a machine learning (deep learning) model capable of detecting diseases on images of potato leaves.
- Implemented Keras and NumPy for preprocessing datasets from Kaggle, and Matplotlib for visualizing insights.
- Achieved up to 99.87% test accuracy in classifying potato leaves as healthy or diseased (early or late blight).

### Sustainify

[github.com/decloon/HackUTD](https://github.com/decloon/HackUTD)

November 2024 – November 2024

- Developed an AI-powered web app for HackUTD 2024 in a team of 4, enabling property managers optimize energy usage and sustainability.
- Built a responsive frontend with ReactJS and Tailwind CSS, and a backend with Flask and PostgreSQL for efficient data storage.
- Integrated data analysis tools like Pandas, Scikit-learn, and ChartJS, using SambaNova's LLM for tailored insights.