

# Jay Shah

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## Education

### University of Illinois Chicago

Master's in Computer Science, Illinois, USA

Aug 2024 - May 2026

GPA - 4.0

### Pandit Deendayal Energy University (PDEU)

Bachelor of Technology in Information and Communication Technology, Gujarat, India

Sep 2020 - May 2024

GPA - 3.74

## Skills

**Technology:** Data Structures and Algorithms, TensorFlow, PyTorch, Scikit-Learn, AI, MySQL Workbench, Oracle, Microsoft Azure, Google Cloud Platform, Docker, AWS, Git

**Languages:** C++, Python, SQL, C, HTML, CSS, JavaScript, TypeScript, Node.js, React.js, Express.js, MongoDB, Flask, R Programming

## Work Experience

### Futurrizon Technologies Pvt. Ltd.

Software Engineer Intern

Ahmedabad, Gujarat, India

Feb 2024 – May 2024

- Built full-stack applications using Microsoft Power Apps and Power Bi, creating interactive dashboards and user experiences.
- Automated backend workflows with Microsoft Power Automate and implemented scalable data solutions using Azure data lake and Microsoft SQL server.
- Enhanced client systems by integrating Python with Azure cloud technologies for optimized performance and reliability.

### IIIT Nagpur

Research Intern

Nagpur, Maharashtra, India

May 2023 – Jul 2023

- Contributed to the research topic "Applications of Machine Learning and Deep Learning for Semantic Analysis" under the guidance of Dr. Jitendra Tembhurne.
- Implemented BI-LSTM and BERT Transformer model for sentiment analysis, demonstrating that BERT outperforms BI-LSTM with an accuracy of 92.5% compared to 87.8%; displayed data analysis and critical thinking skills in model evaluation.

## Project Experience

### AirMap | [GitHub Link](#)

UIC, Chicago, Illinois, USA

- Developed an air quality monitoring application, utilizing JAVA for backend processing and Arduino code for sensor integration.
- Integrated MQ135 and DHT11 sensors to measure air quality, temperature and humidity for environmental monitoring.
- Developed a user-friendly GUI with customizable measurement units and a dynamic heatmap visualization to display live air quality data from multiple Arduino sensors.

### Weather Snap | [View Website](#)

- A weather Web application that uses the OpenWeatherMap API to fetch and display current weather data and forecasts for various locations, built with javascript, HTML and Styled Components.

### Tasty Treasure | [GitHub Link](#)

- Developed a recipe recommendation web application using NLP and collaborative filtering to suggest personalized recipes based on user-input ingredients and cooking time, built with Flask, HTML and CSS.

### Sunday Morning Club | [View Website](#)

- Created a vibrant react-based platform for Chicago's Sunday morning club, showcasing events and activities, fostering connections, and enabling socializing through games and friendships.

### Kanban Board | [GitHub Link](#)

- Developed a responsive Kanban board using React, TypeScript and TailwindCSS for task management with an intuitive user interface for efficient workflow tracking.

### Help Session Activity

UIC, Chicago, Illinois, USA

- Designed and implemented an efficient MySQL database with ER diagrams, entity attributes and relational constraints.
- Developed and executed SQL queries for data manipulation, retrieval and ensuring referential integrity.

### AI For Material Engineering

PDEU, Gandhinagar, Gujarat, India

- Developed Machine Learning model to accurately predict the PCE % of the solar cell using different materials for HTL and ETL.
- Trained and evaluated multiple models including Graph Neural Network, XGBoost, Gradient Booster Regression and DNN.
- Achieved an accuracy of 97.9% and lowest RMSE of 0.028 with DNN, demonstrating superior performance compared to previous research.

## Extracurricular Activities

### International Exposure Program (IEP), Dubai

- Gained Hands-on industry interaction with personnel from Intel, Siemens, and business professionals through Curtin University, Dubai.