

# Vidya Gangaswamy

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## EDUCATION

### Illinois Institute of Technology

*Masters in Information Technology and Management | GPA: 4.0*

*Course Work: OOPS, Data Science, Android Studio, Web development.*

Aug. 2023 – Dec 2025

*Chicago, IL*

### Visvesvaraya Technological University

*Bachelor of Engineering, Computer Science and Engineering | GPA: 3.4*

*Course Work: Operating Systems, DBMS, ML and Big Data*

Aug. 2019 – Jun 2023

*Bengaluru, India*

## EXPERIENCE

### Graduate Student Assistant

*Illinois Institute of Technology*

- Utilize Salesforce for detailed analysis and evaluation of graduate and undergraduate applications, ensuring meticulous academic merit assessments and supporting the university's commitment to diversity and excellence.

Oct 2023 – April 2024

*Chicago, IL*

### Machine Learning intern

*SkillVertex*

- Enhanced dataset preparation and churn model evaluation using advanced preprocessing and performance metrics.
- Utilized Matplotlib, Seaborn, and Plotly for impactful data visualization also conducted feature engineering to improve model accuracy and addressed challenges with imbalanced datasets.

Mar 2023 – May 2023

*Bangalore, India*

### Mobile Application development intern

*SMMUD Technologies pvt.ltd*

- Collaborated on the Fresko Choice project using Flutter for cross-platform development and implemented Firebase Real-Time Database for synchronized data management across iOS and Android.
- Integrated Firebase Authentication, Google Pay, and Google Maps APIs to enhance security, payment processing, and real-time location tracking, significantly improving user experience and app functionality.

Jun 2022 – Dec 2022

*Bangalore, India*

## PROJECTS

### Champion Compass | Used-(Java, XML, Firebase, Android Studio)

Jan 2024 – Mar 2024

- Developed an interactive Android application in Java and XML, integrating Firebase Authentication and Realtime Database for secure data management, enabling dynamic content delivery and personalized user experiences tailored to gameplay interactions.
- Enhanced user engagement through advanced data binding and adaptive quiz algorithms, and optimized backend operations using Firebase Cloud Functions for scalable, real-time data handling and user feedback.

### Issue Tracking system | Used-(Java, JavaFX, MySQL)

Sept 2023 – Dec 2023

- Created an MVC-based issue tracking system with MySQL and Java/JavaFX that improves task efficiency and issue resolution with personalized dashboards for different user roles. Proven proficiency in sophisticated database integration and manipulation for optimal problem-solving.
- optimizing resource usage and system performance by developing a dynamic node scaling scheduler using Kubernetes for workload-based node scaling.

### Wildfire Detection system | Used-(Jupyter Notebook, Python, Streamlit)

Feb 2023 – Apr 2023

- Developed a U-net deep learning model for identifying forest fire scars in satellite images, demonstrating advanced skills in environmental monitoring, and utilized Databricks for efficient, scalable model training on large datasets.
- Streamlined deployment via Streamlit, enhancing user engagement with an intuitive interface for accessing our state-of-the-art forest monitoring tool.

### Online Bakery Management | Used-(HTML, CSS, PHP, ReactJS, MySQL)

Dec 2021 – Mar 2022

- Developed an Online Bakery Management System for seamless selection and purchase of bakery goods, implementing a robust database with customized queries.
- Crafted a precise user interface using ReactJS, HTML, and CSS, enabling users to create profiles for easy login, product selection, cart management, and streamlined order placement.

## TECHNICAL SKILLS

**Languages:** Java, Python, C, C++

**Database:** SQL, MySQL, SQLite, Firebase

**Frontend Tools:** HTML5, JavaScript, ReactJS, CSS, PHP, XML

**IDE:** Visual Studio, Android Studio, NetBeans, Jupyter notebook, Eclipse, IntelliJ