

ADITYA NITURE

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EDUCATION

Illinois Institute of Technology, Chicago, IL, USA

May 2025

Master of Science, Computer Science

Relevant Coursework: Artificial Intelligence, Machine Learning, Data Preparation and Analysis, Advanced Database Organization, Big Data, Design and Analysis of Algorithms.

M.S. Bidve College of Engineering, Latur, IN

May 2022

Bachelor of Technology, Computer Science Engineering

SKILLS

- **Programming Languages:** Python, Java, JavaScript, SQL, Kotlin, Swift, TypeScript, R, C/C++, MySQL, Dart, HTML, CSS, MongoDB, Cassandra, Redis, Laravel, Julia, PHP, Scala, C#, MATLAB, Rust, Go
- **Frameworks, Application Development & Web:** .NET, React.JS, Node.JS, Vue.JS, Angular.JS, Spring/Spring Boot, Django, Flask, RESTful APIs, Next.JS, GraphQL, Bloomberg, Hibernate, Express.JS, Ruby, Android Development (Android Studio), iOS Development (Swift, Xcode), Dart, Flutter, Kafka
- **Data Science, Machine Learning & Big Data:** Deep Learning, NumPy, Pandas, Scikit-Learn, TensorFlow, Keras, PyTorch, RAG, NLP, Algorithm Development, SMOTE, Model Training, Predictive Maintenance, Data Visualization (Tableau, Power BI), PostgreSQL, SQL Server, Spark, Hadoop, Apache, Matplotlib
- **Cloud, DevOps & Tools:** AWS (Lambda, S3, SQS), GCP, Azure, Docker, Kubernetes, Automation systems, Helm, Terraform, CI/CD Pipelines, ERP Integration, Oracle, Snowflake, Boomi, GitHub, Bash Scripting, Linux Systems, TCP/IP, Airflow, Microservices, DBEaver, System Configurations
- **Agile Development Methodologies:** Scrum, Sprints, Bamboo, Kanban Boards, Jenkin, Spinnaker, Confluence, Jira, Extreme Programming (XP), Agile Modeling

WORK EXPERIENCE

SOFTWARE ENGINEER INTERN

Ping Cares, Chicago, IL

January 2025 - Present

- Spearheaded enhancement of mobile application using **Flutter**, introducing features that allow elderly users to set daily goals. Automated trivia updates, simplifying manual intervention by 40% and revising workflow efficiency, contributing to a **25% boost in user engagement** while ensuring accessibility standards.
- Revamped backend systems utilizing **Ruby**, succeeding a **15% reduction in API response times** and significantly improving reliability of critical services.
- Devised and executed advanced data processing pipelines and machine learning models to analyze wearable device data, enabling actionable insights for elder safety and wellness. These efforts enhanced predictive capabilities by **20%**, facilitating better monitoring and proactive interventions for critical health events.
- Boosted smartwatch usability by developing and deploying a real-time alert system for fall detection leveraging **gyroscope and accelerometer sensors, Python, and machine learning algorithms**. This innovation increased caregiver response efficiency by **30%**, ensuring timely interventions and improved elder safety.

DATA ENGINEERING INTERN

Swaraj Infotech, Pune, India

October 2021 - December 2021

- Devised a Python-based data pipeline, cutting data processing time **by 35%** and enabling quicker reporting and decision-making for government schemes.
- Strengthened data integrity by incorporating robust **validation techniques in MySQL**, attaining a **25% increase in data accuracy and reliability**, and designed dynamic, interactive dashboards with **Tableau and Power BI** to enhance stakeholder visibility and decision-making.
- Engineered an efficient data archiving solution using **Python and MySQL**, diminishing storage costs by **20%** while maintaining strict compliance with regulatory data retention policies, streamlining long-term data management and retrieval processes.
- Automated data management tasks with Python, significantly cutting down manual effort **by 40%** and freeing up the team to concentrate on key strategic initiatives.

PROJECTS

AI-POWERED FINANCIAL NEWS SUMMARIZER

May 2025 – June 2025

- Built a full-stack web app using **React, FastAPI, and Python** to fetch live financial news and summarize content using **OpenAI's GPT-3.5**
- Engineered a custom **NLP pipeline** to tag sentiment, sectors, and tickers, enhancing relevance for market-facing use cases and deployed the platform with **Docker and AWS Lambda**, ensuring fast, scalable delivery of real-time summaries

DESKTOP SCHEDULER APP

April 2025 - May 2025

- Designed a desktop scheduling application using **C# and Windows Forms (.NET 6/7)**, enabling users to manage daily events through a sleek calendar interface.
- Integrated toolbar actions, calendar filtering, time selectors, and confirmation dialogs, improving user workflow and usability and added dark/light mode toggle and integrated **SQLite with Entity Framework Core** for reliable local data persistence.

MDA-EFSM VENDING MACHINE SYSTEM

February 2025 - April 2025

- Developed and implemented a Meta-Data Augmented Extended Finite State Machine (MDA-EFSM) for a coffee vending machine system, optimizing **dynamic payment and drink type selection processes by 25%**, reducing transaction complexity, and **overhauling system scalability** for real-world applications.
- Designed and tested class structures for **multiple vending machine configurations (VM1 and VM2)**, achieving a **30% improvement in code modularity and reusability** by integrating payment methods, drink type selection, and receipt generation using Object-Oriented Design principles and the Strategy Pattern.

LIVE NEWS FETCHING APPLICATION

May 2024 - July 2024

- Engineered live news app with **Flutter and Dart**, integrating **real-time updates** from multiple sources and demonstrating expertise in Android development.
- Incorporated user-friendly features **search, bookmarks, and category-based retrieval and revamped UI performance** with libraries and image caching.
- Enhanced user experience through **smooth navigation, responsive design, and Android security features**, connecting to back-end services via **RESTful APIs** and applied **Git, OOP, and Agile methods**.

HOTEL & CLUB MANAGEMENT

April 2023 - June 2023

- Built a **full-stack web application** with **Java Enterprise Edition and Angular** for hotel and club management, streamlining operations and boosting overall efficiency by **30%**. Optimized database queries using **SQL and Hibernate**, enhancing data retrieval performance and decreasing server load by **20%**.
- Increased user engagement by **25%** through an intuitive, **responsive UI**, and revamped retention rates by **15%** with personalized offers and loyalty programs.

CERTIFICATIONS

- IBM Data Science Professional Certificate June 2024
- Full Stack Development from SEED Infotech July 2023
- Java Core and Advance from Edu CADD March 2021
- Python Bootcamp from Udemy February 2021