

ADITYA NITURE

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EDUCATION

Illinois Institute of Technology, Chicago, IL, USA	Expected 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, MATLAB, Julia, Scala, C#, Rust, Go, PHP, Haskell
- Data Science, Machine Learning & Big Data:** RAG, NLP, Deep Learning, MXNet, Deep Learning, Data Mining, Model Training, Predictive analysis, NumPy, Pandas, Scikit-Learn, TensorFlow, Keras, PyTorch, Algorithm Development, SMOTE, Jenkin, Model Training, Predictive Maintenance, Data Visualization (Tableau, Power BI), PostgreSQL, SQL Server, Spark, Hadoop, Apache, Matplotlib, Computer Vision
- Web, Application Development & Frameworks:** Tailwind CSS, React.JS, Node.JS, Vue.JS, Angular.JS, Spring/Spring Boot, Django, Flask, RESTful APIs, Next.JS, GraphQL, AJAX, Hibernate, Express.JS, Ruby, SOA, Android Development (Android Studio), iOS Development (Swift, Xcode), Dart, Flutter, Kafka,
- Cloud, DevOps & Tools:** Amazon Web Services (AWS), Google Cloud Platform (GCP), Azure, Docker, Kubernetes, Automation systems, Helm, Terraform, CI/CD Pipelines, Edge Computing, GitHub, Bash and Shell Scripting, Linux Systems, Airflow, Test Bench Setups, System Configurations, Troubleshooting, CAD tools

WORK EXPERIENCE

DATA SCIENCE INTERN

Ping Cares, Chicago, IL	January 2025 – Present
<ul style="list-style-type: none">Orchestrated deployment of a predictive emergency alert system operating Python, machine learning models, and wearable sensor data (gyroscope & accelerometer) to detect falls, increasing caregiver response time by 30% and ensuring timely interventions.Formulated a voice-based medication reminder system leveraging NLP models, boosting adherence rates by 25%, and introducing a sentiment-based check-in system deploying sentiment analysis to assess user well-being.Synthesized real-time data pipelines to process wearable device data, optimizing predictive health monitoring accuracy by 20%, while automating analytics dashboards with Power BI and SQL, cutting down manual reporting efforts by 40%.Refactored backend logic in Ruby, attaining a 15% improvement in API response times, and integrated AI-driven enhancements into Flutter-based applications, elevating user engagement by 25%.	

DATA ENGINEERING INTERN

Swaraj Infotech, Pune, India	October 2021 - December 2021
<ul style="list-style-type: none">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, accomplishing a 25% increase in data accuracy and reliability, and designed dynamic, interactive dashboards with Tableau and Power BI to improve stakeholder visibility and decision-making.Engineered an efficient data archiving solution using Python and MySQL, reducing 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 simplifying manual effort by 40% and freeing up the team to concentrate on key strategic initiatives.	

PROJECTS

ONLINE SHOPPERS' PURCHASING INTENTION

	September 2024 – December 2024
<ul style="list-style-type: none">Analyzed online shopper behavior using machine learning models, including Random Forest and XGBoost, succeeding a 15% increase in prediction accuracy for purchase intention by addressing data imbalance through SMOTE and employing advanced feature selection techniques for optimal model performance.Implemented unsupervised learning algorithms K-Means and DBScan to identify customer behavior clusters, leveraging PCA and t-SNE for dimensionality reduction and developing actionable visualizations of purchasing patterns, which led to a 20% improvement in customer segmentation insights.	

LIVE NEWS FETCHING APPLICATION

	May 2024 - July 2024
<ul style="list-style-type: none">Engineered live news app with Flutter and Dart, consolidating 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.Boosted 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.	

MDA-EFSM GAS PUMP SYSTEM

	January 2024 - April 2024
<ul style="list-style-type: none">Developed and implemented a Meta-Data Augmented Extended Finite State Machine (MDA-EFSM) for a gas pump system, honing dynamic payment and fuel type selection processes by 25%, decreasing transaction complexity, and improving system scalability for real-world applications.Designed and tested class structures for multiple gas pump configurations (GasPump1 and GasPump2), attaining a 30% improvement in code modularity and reusability by synthesizing payment methods, fuel type selection, and receipt generation leveraging Object-Oriented Design principles and the Strategy Pattern.	

AIR QUALITY PREDICTION

	February 2024 - April 2024
<ul style="list-style-type: none">Devised a high-accuracy air quality prediction system focused on PM2.5 levels, employing machine learning models such as Random Forest, LSTM, and ARIMA.Executed thorough data cleaning and preprocessing techniques to ensure high-quality inputs, significantly elevating system's prediction accuracy by 15%.	

HOTEL & CLUB MANAGEMENT

	April 2023 - June 2023
<ul style="list-style-type: none">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, improving data retrieval performance and decreasing server load by 20%.Increased user engagement by 25% through an intuitive, responsive UI, and improved 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