

DIKSHA SINGH

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Education

Indiana University (IU)

Master of Science in Computer Science - GPA (3.83/4)

Bloomington, Indiana

Aug 2022 – May 2024

Vellore Institute of Technology (VIT)

Bachelor of Technology in Computer Science and Engineering - GPA (8.92/10)

Vellore, India

July 2015 – April 2019

Technical Skills & Certifications

Certifications: AWS Cloud Practitioner Essentials (Coursera), Introduction to Cloud Computing (Coursera)

Languages: Java, Python, Groovy, CUDA, HTML/CSS, JavaScript, SQL, Node.js, Express.js, React, XSLT, PHP, C++ (Basic), R (Shiny)

Technologies/Frameworks: GitHub, SpringBoot, Jira, SAP Cloud Integration (SCI), SAP SuccessFactors, Visual Studio

Databases: PostgreSQL, MongoDB

Cloud Platform: Amazon Web Services (AWS)

Libraries: Pandas, NumPy, Scikit-learn, TensorFlow, Keras, Matplotlib, Seaborn

Work Experience

Brainovision Solutions Pvt Ltd

Software Developer Intern

Hyderabad, Telangana, India

June 2023 – Aug 2023

- Implemented AWS cloud services (EC2, S3, Lambda, VPC) in the project, achieving 30% improvement in scalability and reducing hosting costs by 25%.
- Developed Jenkins CI/CD pipelines for the web application, leading to 40% faster deployment times and a 20% decrease in production defects.

Deloitte India Private Limited

Consultant

Bengaluru, Karnataka, India

Aug 2019 – July 2022

- Worked as an Integration Developer.
- Developed and delivered 7+ integrations between SAP SuccessFactors and other applications/systems using SCI, resulting in a 40% reduction in manual data entry and a 30% increase in process automation.
- Improved the data processing performance by 60% by optimizing groovy scripts and XSLT mappings to ensure faster data transformation and handling incoming API requests.
- Developed and generalized integrations from different Deloitte projects for the 'SAP Cloud Integrations Factory' repository which will be sold and reused across different clients thereby reducing the development effort by up to 40%.
- Assisted and coordinated the activities at Deloitte for the 'Integration Lead Development Program' to impart training to 15 Senior-Consultants & Consultants to lead future client projects.

Academic Projects

Booking Management System | MERN, MongoDB, React, Node JS, Express

Jan 2023 – May 2023

- Developed a movie ticket booking system following an Agile approach with essential features such as Searching, Bookings, Payments, Chat Support, etc. to increase the speed of bookings by 40% and reduce customer wait times by 30%.
- Used Express and Node for backend, React framework for frontend, MongoDB for the database and AWS for hosting the application.

GraphMaze - Parallel Graph Algorithms Library | Python, C++, CUDA, GPU

Jan 2023 – May 2023

- Developed a Python library consisting of 2 parallel graph algorithms - 'Kmeans' and 'embedding algorithm using deepwalk' by utilizing GPU and achieved a speed increase of upto 30x compared to the traditional kmeans.
- Implemented the frontend using Python programming language written to support running backend CUDA kernel which is coded in C++ to perform the parallelization task.

Driver Insurance Claim Prediction

Dec 2022

- Implemented 9 different ML models using scikit-learn and TensorFlow to predict if a driver will file an insurance claim or not. Evaluation metrics included accuracy, precision, recall, F1 score and ROC score to compare the models.
- Achieved an accuracy of 96.9% using AdaBoost with Random Forest and Bagging classifier with Decision Tree.

Extracurricular / Achievements

- Awarded the Grace Hopper Celebration of Women in Computing 2023 Student Scholarship.
- Received Spot Award (Jan 2022) in the project for delivering 5 complex data integrations with quality across 4 sprints.
- Coordinator in the National Committee of Publicity & Marketing team in Riviera 2018 (International Cultural & Sports Carnival) at VIT, resulting in a 50% increase in student participation from all over the country in the fest's various events through effective publicity efforts.