DIKSHA SINGH

Bloomington, Indiana

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Education

Indiana University (IU)   **Bloomington, Indiana**
Master of Science in Computer Science (3.83/4)   *Aug 2022 – May 2024*

Vellore Institute of Technology (VIT)   **Vellore, India**
Bachelor of Technology in Computer Science and Engineering (8.92/10)   *July 2015 – April 2019*

Technical Skills & Certifications

Certifications: AWS Cloud Practitioner Essentials (Coursera), Micro-Certification - Welcome to ServiceNow
Languages: Java, Python, Groovy, Bash, SQL, JavaScript, HTML/CSS, Node.js, Express.js, React, XSLT
Technologies/Frameworks: AWS, Docker, Jenkins, GitHub, Jira, SAP Cloud Integration (SCI), SAP SuccessFactors
Databases: PostgreSQL, MongoDB, MySQL
Libraries: Pandas, NumPy, Scikit-learn, TensorFlow, Keras, Matplotlib, Seaborn

Work Experience

Indiana University   **Bloomington, Indiana**
Associate Instructor   *Aug 2023 – Present*

- Facilitated engaging sessions for a cohort of 54+ students in mastering OOPs concepts, Python, and data-structures, while also providing comprehensive support through office hours, grading, and preparing teaching materials.

Brainovision Solutions Pvt Ltd   **Hyderabad, Telangana, India**
Software Developer Intern   *June 2023 – Aug 2023*

- Leveraged AWS services (EC2, S3, Lambda, VPC) for scalability boosting and hosting cost reduction.
- Created Jenkins CI/CD pipelines, resulting in 40% faster deployments and a 20% reduction in production defects.

Deloitte India Private Limited   **Bengaluru, Karnataka, India**
Consultant (Integration Developer)   *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%.

Academic Projects

Booking Management System | *MERN, MongoDB, React, NodeJS, Express*   **Jan 2023 – May 2023**

- Created a user-centric UI/UX web application for movie ticket booking following Agile methodologies, incorporating key features like search, bookings, payments (Stripe), and chat support, all hosted on AWS for robust performance.
- Implemented database interaction APIs for easy record management, including, adding, updating, and deleting records.

GraphMaze - Parallel Graph Algorithms Library | *Python, C++, CUDA, GPU*   **Jan 2023 – May 2023**

- Developed a high performance Python library utilizing CUDA programming to implement the 'Kmeans' algorithm, achieving upto **30x faster data clustering speed** compared to conventional algorithm.
- Constructed the Python frontend to facilitate the execution of CUDA backend kernel in C++ for parallelization.

Driver Insurance Claim Prediction | *Python*   **Dec 2022**

- Developed and assessed 9 ML models (scikit-learn, TensorFlow) for driver insurance claim prediction, achieving **96.9%** accuracy with AdaBoost combining Random Forest and Bagging classifier with Decision Tree.

Pizza Website | *HTML, CSS, JavaScript, PHP, MySQL*   **Sept 2018 – Nov 2018**

- Orchestrated a team of 3 developers in creating a fully functional pizza ordering website, enabling user registration, login, navigation, and customized pizza ordering for enhanced user experiences.

Extracurricular & Achievements

- Grace Hopper Celebration'23 (GH23) Student Scholarship recipient, dedicated to advancing women in tech.
- Jan 2022 Spot Award recipient for successfully delivering 5 high-quality data integrations in 4 sprints.