ADITI SONAWANE

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EDUCATION

Master of Science, Computer Science **May 2024**

*Indiana University Bloomington, IN (**GPA: 3.93/4.0**)*

Coursework: Applied Algorithms, Computer Networks, Software Engineering, Database Design, Cloud Computing, Security for Networked Systems, Data Mining, Applied Machine Learning, Usable Artificial Intelligence

Bachelor of Engineering, Computer Engineering **May 2020**

*Savitribai Phule Pune University, Pune, India (**GPA: 8.29/10**)*

Coursework: Object Oriented Programming, Data Structures and Algorithms, Operating Systems, Software Development.

Associated With: Institution of Engineers India, Association of Computer Engineers

EXPERIENCE

Software Developer Intern | Bloom Insurance, USA May 2023 - Dec 2023

- Developed and maintained custom .NET application using **MVC** architecture, **C#**, **JavaScript** and HTML.
- Collaborated on bug analysis, documentation, security enhancements, testing, version control through Github, resulting in a 20% improvement in system performance and reliability.
- Introduced **AJAX**-based **asynchronous** operations and **created api calls** to fetch data in batches, reducing server response times by 25%, resulting in a more live and interactive user interface.
- Notably, revamped and optimized various critical application features, contributing to a 75% **reduction in page load times** and a remarkable 95% improvement in overall performance.

Software Developer | Cognizant Technology Solutions, India Jun 2020 - Jun 2022

- As a sole developer, **independently** engineered and managed software for insurance policy forms using **ASP .Net**, **Entity Framework**, **SQL Server**, Jenkins, GitHub, CI/CD Pipeline and **Agile Methodologies**.
- Achieved a 30% decrease in deployment errors and a 25% boost in deployment efficiency, resulting in an impressive 90% reduction in application defects.
- Enhanced user interface functionalities, contributing to a 25% increase in **user satisfaction** and a 20% decrease in user-reported issues.
- Developed and scheduled scripts for support related tasks reducing average customer query resolution time by 75%.
- Provided **mentorship** to onboard new team members and guided them in understanding application and backend code.

TECHNICAL SKILLS

Programming Languages: C#, Python, Java, C++, Java Script
Web Development: Rest APIs, Spring, .Net MVC, .Net Core, ASP.Net, HTML, CSS, System Design, Design Patterns
Database: SQL, SQL Server, MySQL, Neo4j, NoSQL
DevOps and Engineering Tools: AWS, Git, Ajax, CI/CD, Jenkins, JIRA, Agile

PROJECTS

CI/CD Pipeline using AWS | Indiana University Bloomington

- Built 'CommunityConnect', a cloud-based communication platform for neighborhoods using **AWS**, enabling effortless communication between neighbors, incorporating features such as high-priority email notifications for important posts.
- Executed an efficient **CI/CD pipeline** with **Java**, AWS **CodeBuild**, **CodeDeploy**, CodePipeline, **EC2** and **Lambda** for reliable, accelerated code deployment by 52% while optimizing costs.

Sentiment Analysis for Amazon Reviews | Indiana University Bloomington

- Created sentiment analysis model for Amazon reviews, utilizing logistic regression, RNNs, and **fine-tuned BERT**.
- Achieved 99% accuracy with BERT, surpassing logistic regression (90.50%) and **RNN** (92.5%) models, demonstrating superior sentiment analysis capability.

Data design of Google Play Store Apps for Market Insights | Indiana University Bloomington

- Utilized Google Play Store data with **MySQL**, Neo4j to analyze app success and suitable categories for product advertisement.
- Applied advanced database queries including joins and aggregate functions to identify user groups, profitable app categories, assess tech-team performance. **Neo4j** visualization streamlined insights for clearer decision-making.
- This strategic analysis improved market insights precision by 20% and optimized in-app promotions.

Bank Data Classification | ICINC-2020, Pune University

- Led a team of 4 in creating a **Classification System** using C4.5 and Random Forest for Customer Acquisition, Retention and Loan Prediction and improved model training efficiency by 30%, optimizing the overall performance of the real-time system.
- Trained the model on existing databases, incorporating key attributes like Customer Age and Education which resulted in a 25% improvement in the model's predictive accuracy. Implemented robust authentication and security using **Django**, building the system with **Python**, Django, HTML, and CSS.