Swasti Choubey
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Education:

University of California, Irvine — **Irvine, California**
Master of Computer Science — **Mar, 2023**

Vellore Institute of technology — **Bhopal, Madhya Pradesh**
Bachelor of Technology — **Jul, 2021**

Work Experience:

University of California, Irvine — **Irvine, California**
Graduate Student Researcher — **Mar, 2023 – Present**
• Designed advanced algorithms to leverage Artificial Intelligence for non-invasive tumor detection, resulting in a 15% more reliable and efficient diagnosis process.
• Collaborated with a team of medical professionals to analyze and interpret large datasets, leading to the identification of key biomarkers for early-stage tumor detection with a success rate of 90%.
• Optimized algorithms and reduced computation time by 40% and enabling faster analysis of patient data.

Cisco — **San Jose, California**
Software Engineer (Master's) Intern — **Jul, 2022 – Sep, 2022**
• Implemented machine learning algorithms for log monitoring and analysis, resulting in a 30% improvement in incident response efficiency.
• Streamlined anomaly detection processes by integrating machine learning techniques into the QA team's workflow, leading to a 40% reduction in false positives.
• Deployed a customized anomaly detection model that increased the QA team's ability to identify critical issues by 35%.

Cognizant Technology Solutions — **Pune, Maharashtra**
Program Analyst Trainee — **Feb, 2021 – Jul, 2021**
• Formulated and executed a comprehensive project plan for the development and deployment of a web application, resulting in the successful completion of the project on time.
• Utilized best practices in web application development, using C#, Microsoft Azure, and DevOps methodologies to ensure high-quality code and seamless functionality.
• Engaged with a cross-functional team of designers, developers, and stakeholders to gather requirements, design user-friendly interfaces, and troubleshoot issues throughout the development process. Received 90% positive feedback from stakeholders on communication skills and ability to deliver results.

Flairsoft Consulting Group — **Bhopal, Madhya Pradesh**
Intern — **May, 2019 – Jun, 2019**
• Designed and implemented an ASP.NET web application that streamlined daily operations for an educational institution, resulting in a 50% increase in productivity.
• Applied C#, HTML, CSS, and SQL Server skills to develop a user-friendly interface that improved user experience
• Independently conducted rigorous testing on the web application, ensuring its reliability and security.

Skills:

Programming Languages **(Java, Python, C#, JavaScript, React),** Artificial Intelligence **(Machine Learning, Deep Learning),** Version Control Systems **(Git), Agile Methodology, Web Application Development,** Database Management **(SQL Server, PostgreSQL),** Data Analysis **(Splunk, Tableau),** Cloud Computing **(Microsoft Azure, AWS), Contributing to the Open-Source Community, DevOps, Problem Solving, Team Collaboration, Cross-functional Communication**

Project Experience:

Tableau Market Performance Dashboard: Analyzing Consumer Behavior and Competitive Landscape
• Created an interactive Tableau dashboard synthesizing sales records, customer surveys, and competitor analysis for comprehensive consumer behavior analysis.
• Employed Tableau's visualization tools to dissect purchasing patterns, preferences, and competitor strategies, facilitating dynamic exploration of market trends.
• Provided actionable insights for informed decision-making, spotlighting emerging trends, competitive strengths, and growth opportunities, driving strategic recommendations for market enhancement

Genetic Relation Detection
• Developed and implemented Machine Learning models to successfully detect genetic relationships in photographs, achieving an impressive accuracy rate of 70% using Multilayer Perceptron Classifier and 65% using Random Forest Classifier on the challenging Kinship Faces in the Wild dataset.
• Improved model performance by 15% through meticulous fine-tuning of hyperparameters, resulting in even more accurate predictions.
• Utilized advanced data analysis techniques to analyze the Kinship Faces in the Wild dataset, identifying key patterns and trends that contributed to the development of superior machine learning models for detecting genetic relationships.

Natural Language Processing with Disaster Tweets
• Used a linear SVM model to accurately classify tweets into real natural disasters and non-disasters, resulting in an impressive 89% accuracy rate in disaster tweet classification.
• Implemented an automated categorization system that contributed to a 20% faster disaster response time by efficiently sorting and prioritizing relevant tweets for immediate action.
• Performed comprehensive data preprocessing, removing tags, URLs, emojis, and other irrelevant information to ensure the usability of the data for analysis.

Certificates:

JPMC **Agile** Job Simulation**,** JPMC **Software Engineering** Virtual Experience**,** Coursera Fundamentals of Visualization with **Tableau,** LinkedIn Learning **Splunk,** Cloud Computing using **Microsoft Azure,** Oracle **Java SE 8 Programming,** IBM Developer Skills Network **Machine Learning with Python, Python Programming**