

## Swasti Choubey

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### Education:

University of California, Irvine  
**Master of Computer Science**

Irvine, CA  
09/2021 – 03/2023

Vellore Institute of technology  
**Bachelor of Technology**

Bhopal, India  
09/2017 - 07/2021

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### Work Experience:

University of California, Irvine

Irvine, CA

Software Engineer

03/2023 – Present

- Leveraged deep learning models to recover function a priori information, which was employed to constrain the image reconstruction algorithm of Photo-magnetic Imaging, resulting in improved spatial resolution. Achieved a 25% enhancement in image clarity.
- Responsible for the implementation and testing of new algorithms that might improve the performance of previously developed techniques. Reduced processing time by 40% through algorithm optimization.
- Ongoing research project aiming to detect tumors in a non-invasive manner using innovative AI-based approach for the guidance of the image reconstruction algorithm of Photo-magnetic Imaging.

Cisco

San Jose, CA

Software Engineer (Master's) Intern

07/2022 – 09/2022

- Utilized the Splunk Machine Learning toolkit to process logs generated by large scale systems, enabling efficient data analysis and anomaly detection.
- Performed smart outlier detection, revealing 14 anomalous error spikes in the first run itself, allowing the team to proactively identify and resolve critical issues.
- Introduced Machine Learning for Log Monitoring to the QA team, streamlining error detection and improving incident response efficiency by 30%.

Cognizant Technology Solutions

Pune, India

Program Analyst Trainee

02/2021 – 07/2021

- Led a team in the development and deployment of a web application for a retail management system using HTML, CSS, JavaScript, and SQL Server, and was deployed on Microsoft Azure.
- Underwent training in Web Application Development, gaining proficiency in building dynamic and user-friendly web applications. Utilized expertise in C#, web development, DevOps, debugging and project management to ensure the successful completion of the project.
- Improved communication and presentation skills, leading to effective collaboration and successful stakeholder engagement. Received 90% positive feedback from project stakeholders.

Flairsoft Consulting Group

Bhopal, India

Intern

05/2019 – 06/2019

- Designed and developed an ASP.NET based web application automating everyday activities of an institution.
  - Utilized C#, HTML, CSS, and SQL Server in the development process ensuring a user friendly and responsive interface.
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### Project Experience:

Flatmate Finder

- Developed an iOS mobile application that offers a unified interface to find roommates and apartments by collating data scraped from different apartment websites and providing a safe medium to connect and coordinate with other users.
- Increased user engagement by 30% through intuitive user interface design.

Genetic Relation Detection

- Developed machine learning models to detect genetic relationships in photographs.
- Achieved an accuracy of 70% using Multilayer Perceptron Classifier and 65% using Random Forest Classifier on Kinship Faces in the Wild dataset.
- Improved model performance by 15% through fine-tuning hyperparameters.

Natural Language Processing with Disaster Tweets

- Classified tweets into real natural disasters and non-disasters using linear SVM model.
  - Achieved an accuracy of 89% in disaster tweet classification.
  - Contributed to 20% faster disaster response through automated categorization.
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### Technical Skills:

Languages: C, C++, Java, Python, C#, HTML, CSS

Analytics and Other Tools: Splunk, Tableau, SQL Server, Postgres, GNS3, Wireshark

Networking Fundamentals: TCP/IP, IP tables, ARP, Routing, Subnetting, ICMP, RIP, OSPF, BGP, LAN Switching

Python Frameworks: Pandas, Numpy, Keras, SciPy, TensorFlow, PyTorch, Scikit Learn, XGBoost

Certification Courses: 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

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### Relevant Coursework:

Data Structures, Algorithms, Software Engineering, Software Project Management, Advanced Problem Solving and Programming, Mobile Application Development, Introduction to Artificial Intelligence, Machine Learning and Neural Networks, Computer Networking, Object Oriented Programming with C++, Computer Security, Operating Systems, Programming in Java, Computer Architecture, Embedded Systems, Microprocessors and Microcontrollers.