

# Mehul Jhaver

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## EXPERIENCE

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### Samsung Semiconductor, Inc., *DCT Storage Software Development Intern*

May 2022 – August 2022

Optimized caching algorithm for efficient file attribute access

- Designed and optimized a caching algorithm to accelerate file attribute access by 33%, allowing 1024 threads to access file attributes simultaneously
- Optimized techniques for adding, accessing, and removing file attributes from the cache

### Risk Edge Solutions, *Machine Learning Engineer*

August 2020 - July 2021

Developed Machine Learning model to reduce manual transaction verification

- Developed a Machine Learning model that reduced manual transaction verification by 53% through the identification of anomalous transactions
- Fabricated a name-matching model to match the names of account holders who were probable suspects of money laundering
- Mentored and supervised a team of two interns on ongoing projects

### CallHealth Services Pvt. Ltd., *Machine Learning Intern*

January 2020 - June 2020

Built Recommender System for personalized health care recommendations

- Implemented a Recommender System that boosted sales by 10% through the personalization of recommendations
- Investigated historical customer data to create recommendations for healthcare customers based on previous purchase patterns

## TECHNICAL SKILLS

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**Programming Languages:** Python, R, Java, C/ C++, SQL

**Version control:** Git, Bitbucket

**Web Technologies:** JavaScript, React.js, Flask

**Operating Systems:** Windows, Linux, Mac OS

**Databases:** MySQL, PostgreSQL

**ML Libraries/framework:** Pandas, Keras, Tensorflow, PyTorch, NumPy, Scikit-Learn

**Applied ML:** Machine Learning techniques, prediction, statistical analysis, predictive data modeling, and computer vision

## EDUCATION

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**Master of Science in Computer and Information Sciences, University of Florida, Gainesville**

August 2021 – May 2023

**GPA: 3.73/4.0**

**Coursework:** Analysis of Algorithms, Machine Learning, Advanced-Data Structures, Software Engineering

**Bachelor of Technology in Computer Science and Engineering, Manipal University, Jaipur**

August 2016 – May 2020

**GPA: 8.8/10.0**

## PERSONAL PROJECTS

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### Employee Turnover Prediction System

- Devised a Machine Learning model that predicted voluntary resignations by employees of an organization with an accuracy of 91.3%
- Successfully predicted an employee's voluntary resignation and also estimated the time span and likelihood of leaving

### Pneumonia Detection System

- Designed a deep learning system that achieves 90% accuracy in detecting pneumonia patches from chest X-ray images

### Recommender System

- Implemented simple, content-based, collaborative filtering and hybrid recommender systems as a course project
- Provided personalized recommendations to users based on content, previous history, and a combination of both

### Identifying Inconsistencies in Network Data using ML

- Created a Machine Learning model to detect anomalies in network data
- Explored and evaluated different methods to identify inconsistencies and suggested recommendations for practical application and achieved 93% accuracy in identifying potential security breaches using the K-Nearest Neighbors algorithm

### Recipe Sharing App:

- Developed a Recipe Sharing App using React.js and Flask, allowing users to view, add, and edit recipes
- Implemented a responsive user interface using React.js for the frontend and utilized Flask as the backend framework for API handling and to interact with the PostgreSQL database