Mehul Jhaver

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EDUCATION

Master of Science in Computer and Information Sciences, *University of Florida, Gainesville* **August 2021 – May 2023**
Coursework: Analysis of Algorithms, Applied Machine Learning, Machine Learning,
Advanced-Data Structures, Distributed Operating Systems Principles, Software Engineering

Bachelor of Technology in Computer Science and Engineering, *Manipal University, Jaipur* **August 2016 – May 2020**

TECHNICAL SKILLS

Programming Languages: Python, R, Java, C, SQL
Web Technologies: JavaScript, HTML5, CSS, Bootstrap
Tools: Jupyter Notebook, Spyder, Anaconda, VS Code, R Studio, Git
Operating Systems: Windows, Linux
Packages: Pandas, NumPy, Keras**,** Tensorflow, PyTorch, Scikit-Learn, Matplotlib, Seaborn, ggplot2, dplyr, Shiny
Applied ML: Machine Learning and its applications, prediction, statistical analysis, predictive data modeling, and computer vision.

RELEVANT EXPERIENCE

Samsung Semiconductor, Inc., *DCT Storage Software Development Intern* **May 2022 – August 2022**
Contributed to the development of an optimal and efficient caching algorithm for a user space file system

- Designed an algorithm that supports 1024 threads to access the attributes of a file simultaneously in an efficient way.
- Accelerated the time taken to access the file attributes by 33% by allowing multiple threads to work on the cache parallelly.
- Optimized techniques for adding, accessing, and removing file attributes from the cache.

Risk Edge Solutions, *Machine Learning Engineer* **August 2020 - July 2021**
Designed a Machine Learning model to assist a bank with Anti-Money Laundering efforts

- Developed a Machine Learning model that decreased manual transaction verification at the bank 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 a Recommender System for the health care customers

- 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.

PERSONAL PROJECTS

Employee Turnover Prediction System **January 2019 - May 2019**

- 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 **January 2020 - June 2020**

- Designed a system using Deep Learning techniques by analyzing chest X-ray images to detect pneumonia patches.
- Achieved 90% accuracy in detecting pneumonia patches using a Convolution Neural Network.

P2P File sharing system **August 2021 - November 2021**

- Built a peer-to-peer file-sharing software that is similar to BitTorrent.
- Implemented the choking-unchoking mechanism, which is one of BitTorrent's most important features.

Recommender System **January 2022 – April 2022**

- 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 **August 2022 – December 2022**

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