Mehul Jhaver

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EDUCATION

Master of Science in Computer and Information Sciences, *University of Florida, Gainesville* **August 2021 – May 2023**
GPA: 3.7/4.0
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

TECHNICAL SKILLS

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

EXPERIENCE

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

PERSONAL PROJECTS

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

P2P File sharing system

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

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 for information
- Explored and evaluated different methods to identify inconsistencies and suggested recommendations for practical application
- Achieved 93% accuracy in identifying potential security breaches using the K-Nearest Neighbors algorithm