

Neha Manish Vanjara

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SUMMARY

Former AMD co-op/intern. Seeking Spring 2024 internship and May 2024 full time opportunities.

EDUCATION

- **Rochester Institute of Technology** Rochester, New York
Master of Science in Data Science; GPA: 3.89 Jan 2022 - May 2024
- **University of Mumbai** Mumbai, India
Bachelor of Engineering - Computer Science and Engineering; CGPA: 3.42 Aug 2017 - May 2021

SKILLS

- **Languages & Technical Skills:** Java, Python, R, C#, Git, AWS Cloud, JIRA
- **Tools and Libraries:** RStudio, JmpPro, Tableau, Minitab, SparkAR, PowerBi, MSOffice, UE4, Unity3D, MSGitLab
- **Hardware and OS:** Leap Motion Controller, Oculus Quest, Windows, macOS, Linux
- **UI/UX Design Tools:** Blender, Adobe Photoshop, Figma
- **Databases:** Pandas, NumPy, SQL, Matplotlib, Scikit, RDBMS, Snowflake, NoSQL, PostgreSQL

PROFESSIONAL EXPERIENCE

- **Advanced Micro Devices, Inc. (AMD)** Austin, Texas
Product Yield Engineering Intern Jan 2023 - Aug 2023
 - **Do-Tracking:** Built automation tool to generate monthly Do tracker and calibration graph using Python. Utilized Snowflake to create and store data for easy access. Streamlined the reporting process to reduce human error, increase efficiency and **save time by 5-6hours/month**. Ran Yield Models for future product planning.
 - **Derate Improvement:** Achieved reducing the disparity between projected and actual yields for diverse products and categories by scrutinizing patterns and trends in JMP. Enhanced **model precision by 0.5-2%** through data analysis and optimization techniques resulting in better product cost estimation.
- **Parallax Labs** Mumbai, India
Research and Development Intern Jul 2019 - Aug 2020
 - Collaborated with the team to research and develop various augmented and virtual reality applications.
 - **HeliHands:** Designed and developed a **gesture-based terrain maneuver** control application for the Signal and Image Processing Group with Space Applications Center at Indian Space Research Organization (ISRO). Created the 3D terrain with 2D heightmaps provided by ISRO using OpenGL.
 - **Touchless Screens:** Built a gesture-based screen control system during pandemic to avoid users touching **interactive** screens in malls.

PROJECTS

- **Neural Network Approach for Sentimental Analysis:**
 - Structured and implemented **five distinct neural network** models (CNN, RNN, CNN-LSTM, BERT, and Fast Text) utilizing PyTorch to predict sentiment on IMDB data.
 - Achieved **accuracy of 92%** in sentiment classification by leveraging CNN-LSTM and BERT models.
- **NYC311 Heating Complaint Analysis:**
 - Applied Data Modification and Filtration on NYC311 Dataset using R, utilizing "ggplot", "dplyr", and "tidyverse" libraries. Conducted Data Cleaning and Extraction, focusing on heating complaints and seasonal changes.
 - Utilized Data-Driven Analysis to quantify the impact of seasonal variations on complaint frequency, enabling informed decision-making and resource allocation. Identified a **20% surge in complaints** during the holiday season.
- **Predicting Readmission of hospital patients:**
 - Integrated a classification model to predict the readmission cases in the hospital.
 - The goal of predictive analysis was to create a Binary Classification Model that, given the patient's characteristics, can forecast early (<30 days) readmission or not. Produced the US HealthCare system **accuracy of 0.89**.
- **PhysioVR:**
 - Developed **immersive** virtual exercise and monitoring system using UE4 and Blender for high-fidelity patient performance visualization. Published a paper on the project titled "[VR Technology in Physiotherapy](#)"
 - Customized virtual reality-based full-body physical therapy, **resulting in a 30% increase** in therapy effectiveness and patient compliance. Implemented complete inverse kinematic technology for real-time upper limb motion tracking.