# Manish Alluri

L: Gainesville, Florida        E: malluri@ibisinc.ai        P: (667) 228-1801

## EDUCATION

**Master of Science in Computer Science**                                             Aug '21 – May '23
University of Florida • Gainesville, FL                                                                **3.8/4.0**

**Bachelor of Technology in Computer Science and Engineering**          Aug '17 – Jun '21
GITAM University • Visakhapatnam, India                                                    **3.9/4.0**

## EXPERIENCE

**Research Programmer**                                                                              Jun '24 – Present
Integrated BI Solutions • (Client: University of Florida) • Gainesville, FL

• Working as a programmer in the development of the pipeline and analyses of a real-time fMRI project involving clinical data collection, data analyses and performing various statistical analyses using python and fmri related tools.
• Developing a centralized database to store all the archived participant data in a well-organized and structured manner.

**Research Programmer**
Department of Psychology • Gainesville, FL                                                Jun '22 – May '24

• A notable 20% rise in the efficiency of running the participants by improving on data collection, pre-processing and analysis of the experimentation results were recorded over 100s of participants in the studies that were conducted.
• Contributed to the development of a VR navigation paradigm which is used for the RT-fMRI study using C# and Unity 3D and testing the environment multiple times before running the participants to build a robust system.
• Spearheaded the major workflow transition to a novel way of data collection through Redcap which has significantly improved the quality of data by 30% and sped up the timeline by cutting short the estimated initial time for the data analysis.

**Data Analyst**                                                                                            Dec '21 – Jul '22
UF Precision Health Research Center • The Villages, FL

• Performed various data preprocessing tasks on a large-scale dataset of more than 20,000 Covid-19 tests and drafting the statistical visualized reports of the covid-19 test data to the participants and use it further clinical research study on the data.
• Automated the data cleansing and filtering process with an accuracy of 98% and engineered the raw data into meaningful insights using python and Tableau, saving more than 10 hours of manual cleaning and reporting work.
• Worked on the development for pipeline for data retrieval using python and MySQL along with integration of UI/UX design.

**Jr. Data Engineer**                                                                                    Aug '20 – July '21
SmartBridge • Hyderabad, India

• Developed a machine learning model on a dataset of about 2,300 records with an accuracy of 94% by using K-means clustering starting from an initial accuracy of 85% on the same dataset by using proper data cleansing and approximation techniques.
• Contributed to the front-end development of the webpage to add additional features using React and JavaScript and have deployed the webpage which showed a significant rise of 8% in the average interactions and engagements on their website.
• Created and implemented a data warehouse for storing, processing, and analyzing large volumes of data from over 40+ sources.

## SKILLS & CERTIFICATIONS

**Programming Languages/ Frameworks:** Python, C#, SQL, R, JavaScript, C++, CSS, React JS, MATLAB, Flask.
**Other Tools/Skills**: Tableau, SPSS, SAS, SharePoint, Redcap, MS Office, QRV, Photoshop, Unity 3D, ArgoUML
**Soft Skills:** Strong communication skills, Managerial skills, Leadership ability, Problem solving ability, Presentation skills.
**Certifications:** AWS Solutions Architect, R Programming, IBM Data Science, Python for Everybody Specialization.

## PROJECTS

**EaseMyTrip Booking Website**
• Developed a website that replicates basic functionality using Agile methodology and modern software engineering practices working as a team to evaluate requirements, identify bugs, and a 50% performance improvement on the initial timeline of the sprint.
• Wrote 20+ APIs implemented using Postman and integrated backend system and performed more than 40 unit-tests on the APIs written in GoLang and Cypress and deployed the website within a sprint of 48 hours.

**P2P File-Sharing System**
• Developed an application based on BitTorrent protocol using Java Socket API wherein peers communicate and share files
• Integrated the preferred neighbors' selection strategy among peer file sharing to avoid network congestion and deployed the system on a local file host for testing and presenting a demonstration of the system simulation of the protocol followed.

## ACHIEVEMENTS

• Herbert Wertheim College of Engineering Achievement Award Scholarship worth $4500.
• Awarded assistantship with a tuition waiver at UF as Graduate Research Assistant for Fall 2022.
• Lead Graphic Designer and member of IEEE executive committee for CS during the academic year 2020-21.