

Aman Tej Vidapu

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EDUCATION

University of North Carolina Greensboro | Master of Science in Computer Science | Concentration: Data science and Big Data.
Organizations: Graduate student Association (Senator) | Expected, December 2022 Greensboro, NC

Osmania University | Bachelor of Engineering in Computer Science
August 2017 - June 2021

Hyderabad, India

WORK EXPERIENCE

Graduate Research Assistant

March 2022 - Present

University of North Carolina Greensboro | Greensboro, NC

- Hands-on experience in machine learning packages: TensorFlow, Keras, Mxnet, Pandas, Numpy, Scikit-learn, Matplotlib
- Examined the structure within the cell nucleus of interest for investigating both efficacy and risk of cancer drugs using deep geometric learning for chromatin microscope images.
- Improved the accuracy of a Faster RCNN model to predict bounding boxes for each chromatin image by 4.5% using data augmentation techniques and predicted changes in nucleus position.

Software Developer Intern

May 2022 - July 2022

Salem Cyber Inc | Winston Salem, NC

- Worked with ReactJS, Redux, Axios, CSS to implement application in order to improve the user's experience.
- Used react-router module to develop Single Page Applications. Improved app performance with Lazy Loading.
- Created and Used Reducers that received said Actions to modify the Store State.
- Made use of Middleware, Redux-Thunk to cause side effects in Redux-action, and AXIOS for API integration.

PROJECTS

CYCLISTIC: Google Analytics Case Study | R, Tableau, SQL.

This project looks at a Chicago-based bike-sharing company with the objective of increasing its rider base. This report looked at identifying the usage trends between the Company's two main customer types: long-term and casual. The objective of the study is to advise on the best strategies to convert casual members to long-term.

COVID-19 Real-Time Data Analysis | Statistical knowledge, regression, Python, iPython notebook: Jupiter Notebook, Dash (python), Git(CLI), GitHub, and Machine learning ([GitHub](#))

- Worked on cleaning data and formatted the data according to a particular date. Then merged with enrichment data to understand correlation and hidden patterns.
- Implemented Machine learning and statistical models to predict the trend of COVID-19 cases and deaths, regression and non-regression models were used to analyze the real-time COVID-19 dataset, and results were displayed using a simple interactive dashboard built on the Dash framework.

Big data and machine learning | TensorFlow, NumPy, Pandas, OpenCV, confusion matrix, analysis metrics, Hadoop, MapReduce ([GitHub](#))

- Designed a classification machine learning model for classifying different types of fruits and vegetables. Make use of various supervised algorithms, qualitative and quantitative measures to compare the accuracies of different models.

Online shopping system | PHP, MySQL, ReactJS, HTML/CSS, JavaScript, bootstrapping

- Developed an online shopping website using WAMP bundle. Developed pages for different user types, shopping cart, wish list, checkout, order tracking and many more.

SKILLS

Programming Languages: Python, C, C++, Java, JavaScript, SQL, PHP, R.

Software & Tools: Git, Anaconda, Node, Power BI, Tableau, Eclipse, Flake8, Black, Sphinx, Visual Studio, Excel, Word.

UI Technologies: HTML, CSS, React.

Database: SQL Server, PL/Sql, Oracle.

ACHIEVEMENTS AND CERTIFICATES

- Google Data Analytics Professional Certificate
- IEEE CS PROGRAMMING LEAGUE 2020: Second place
- CISCO Networking Academy: IT Essentials: PC Hardware and Software/cybersecurity -- Silver