Vineeth NC

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EDUCATION

University of Maryland, Baltimore County Master of Science in Computer Science GPA: 3.86/4.00	Baltimore, MD Aug. 2021 – Present
Birla Institute of Technology and Science Diploma in Artificial Intelligence and Machine Learning GPA: 3.73/4.00	Hyderabad, India Apr. 2019 – Apr 2020
Jawaharlal Nehru Technological University - Hyderabad Bachelor of Technology in Computer Science GPA: 3.44/4.00	Hyderabad, India Jun. 2014 – Jun 2018
Experience	
 Lab Research Assistant University of Maryland, Baltimore County Working for UMBC's Pi-Squared Lab in the capacity of a researcher for different projects. Contributing to work pertaining to scientific visualizations in VR/MR. Currently studying rasterization optimization for point cloud rendering in real time. Diagnosed the Pi-Squared Lab's CAVE2 wall in order to identify areas that needed repair 	
Research Associate	Oct. 2018 – Mar. 2020
 IT Wizlab Authored beginner and specialized courses for Python and Machine Learning. Worked on the company's Learning Management System and wrote 1000+ Python and M Wrote beginner courses for: Regression, Feature Engineering, Supervised Learning and CL Handled sysadmin work for a network of about 50 systems. 	
Data Engineer – Intern Amazon Development Centre	Jun. 2017 – Jun. 2018 Hyderabad, India
 Built 30+ reports and analyses on Amazon Quicksight based on Redshift databases. Authored about 10 whitepapers about the limitations of the then-AWS technology in the PROJECTS Training Vision Language Models Natural Language Processing Neural Networks	context of the project. Nov. 2022 – Dec. 2022
 Training Vision-Language Models Natural Language Processing, Neural Networks Project to train a multimodal classification model that uses text and image data. Built a BERT+LSTM model for text based classification, an image classification, and a st Tested against various datasets to analyze and write about the current state of multimoda Emphasized the need of large open-sourced multimodal datasets. 	acking fusion model.
 Data Augmentation Comparison Study Python, Neural Networks, Databases Project to generate new augmented training dataset using GANs to train classification models. Constructed a multiple-discriminator GAN to generate images and corresponding labels. Trained about 30 models by varying input dataset sizes and performing hyperparameter t Contrast image classification model performance by varying the training datasets. 	
 Baltimore City Crime Data Dashboard Data Visualization, Data Analysis Built a data dashboard to track and visualize Baltimore city crime statistics. Analyzed over 400k rows of data to build over 15 graphs and charts to provide insights int Performed data cleaning, feature engineering, data analysis, and built data statistics. Wrote code to build Python visualizations using Pandas, Numpy, Matplotlib, and Seaborn 	
 Mediclaim Processing Machine Learning, Classification, Neural Networks Project aimed at predicting whether a given medical insurance claim will be accepted or r Performed data cleaning and feature engineering on a dataset of 150000 rows. Built 15 classification and neural network models and compared their performance. 	Mar. 2020 – May. 2020 not.
Technical Skills	
Languages: Python, C, Go, SQL (MySQL, Oracle, Redshift), HTML/CSS	

Languages: Python, C, Go, SQL (MySQL, Oracle, Redshift), HTML/CSS
Fields: Machine Learning, Data Visualization, Data Science, Natural Language Processing
Tools: Git, Amazon Redshift, Amazon Quicksight, VS Code, Visual Studio, Jupyter, MySQL Workbench
Libraries: Pandas, NumPy, Matplotlib, Scikit-learn, Keras, Tensorflow, Seaborn