

SNEHA PERUGUPALLI

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EDUCATION:

MS in Computer Science | Clemson University, SC | **GPA: 3.55/4.0** **May 2020**
BE in Computer Science and Engineering | KMIT, Hyderabad | **GPA: 3.2/4.0** **May 2017**

PROFESSIONAL WORK EXPERIENCE:

Technical Programmer Intern | **Medical Beam Laboratories, Greenville, SC** **June 2019 -Aug 2019**

- Developed CBCT control and imaging reconstruction software using SDK's and Image Reconstruction Toolkits.
- Built programming sequences by analyzing requirements and used C# to control certain parts of CBCT system using Communication Protocols.

Junior Software Engineer | **Zensar Technologies Ltd, Hyderabad, India** **Dec 2017 – Jul 2018**

- Created new ETL's for loading the Customer Sales Information per product at time period.
- Developed dashboard for scheduling Pentaho ETL's using Python and JavaScript
- Developed inline view queries and complex SQL queries by reviewing mapping transformations
- Fine-tuned ETL data mappings and coupled it with DB scripts to avoid multiple lookups leading to a 20% reduction in ETL processing time in report creation needed for data analysis

ACADEMIC PROJECTS:

Online Hate Promotion Through Memes – Research Project **Fall 2019**

- Extracted dataset by web scrapping and manually annotated memes into hate, non-hate and offensive.
- Developed python based deep learning and machine learning models as part of 4 stage architecture which includes Text detection and Recognition, Sentiment Analysis, Object detection and classification to conclude the presence of hate in memes

Optimizing Text Queries in MongoDB **Fall 2019**

- Optimizing find and match aggregate functions over text queries in MongoDB by constructing a record level hash based inverted index using Java and have also reduced the storage space of the inverted index structure by using a stemming algorithm.

Introduction to Artificial Intelligence **Spring 2019**

- Implemented the following algorithms without any in-built libraries or modules in Python: BFS , DFS , uniform cost search , A* , linear regression, logistic regression and Markov Decision models such as value and policy iteration and Reinforcement learning as part of mini class projects

Classification of Images with cyberbullying actions using neural networks **Spring 2019**

- Created an image classification model using TensorFlow to classify cyberbullying actions using CNN and also performed data augmentation to achieve an accuracy of 91%
- Applied Instance-Segmentation Strategy to identify the predator and the Victim from the classified images

Chicago Salary Prediction **Fall 2018**

- Extracted useful information from employee data to create a prediction engine using R, for the salary of various jobs to achieving an accuracy of 96%
- Applied various supervised techniques for a prediction like Multiple-Linear Regression, Logistic regression, and ridge regression and LASSO as shrinkage methods and developed a web application as GUI for users

TECHNICAL SKILLS:

- Python, Java, C, R, SQL, PLSQL
 - TensorFlow, Numpy, Matplotlib, Scikit-Learn
 - HTML, CSS, Node.js, Angular 6
 - Tableau, ParaView
 - Data Structures & Algorithms
 - Version control using Git
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CERTIFICATIONS:

OCJP (Version 6) **April 2016**