MALAPATI VENKATA BHARATH

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SUMMARY OF QUALIFICATION

BML Munjal University, Gurugram, Haryana, India. (Aug 2015 - May 2019)
Bachelor of Technology in Electronics and Communication Engineering, CGPA: 8.45/10
Courses: Information Theory and Coding, Introduction to Statistical Learning, Digital Signal Processing, Computer Architecture and Organization, Computer Programming in C.

Sri Chaitanya Collge, Vijayawada, Andhra, India. (June 2013 - May 2015)
Senior Secondary, Percentage: 95.4

Dr.KKR's Gowtham International School, Vijayawada, India. (June 2009 - April2013)
Secondary Schooling, GPA: 9.7/10

RESEARCH PUBLICATIONS

M. Bharath, K. V. Reddy and R. Dey, "Implementation of IoT Architecture for Intruder Alert System using MQTT Protocol and MEAN Stack," *2018 4th International Conference on Computing Communication and Automation (ICCCA).*
Link: https://ieeexplore.ieee.org/document/8777526

K. V. Reddy, M. V. Bharath, A. K. Suhag and M. Sinha, "Test Vector Reordering by using Hybrid Genetic Algorithm-Simulated Annealing for Lower Switching Activity," *2018 4th International Conference on Computing Communication and Automation (ICCCA).*
Link: https://ieeexplore.ieee.org/document/8777638

WORK EXPERIENCE:

- **Deep Learning Research Intern at Endimension Technology,** IIT Bombay, Mumbai, India**.**
  (Jan 2019 - June 2019)
  - As a Deep Learning Researcher, worked on leading problem "Segmentation of Lung Nodules in a CT scan using Deep Convolutional Networks "with controlling the effect of false positives by adding a second stage Neural Network.
  - Developed a model to the leading edge problem, "Classification of Lung Nodules Malignancy" from a segmented lung nodule in a CT scan using Deep Learning.
  - Implementation of an annotation tool prototype using Watershed algorithm and Web-Technologies (HTML,Javascript). Created an application that can convert CT data from single to multi planar format.

- **Summer Intern at Defence Research Laboratory (DLRL),** Hyderabad, India.
  (May 2017 - July 2017)
  - Ethernet Based Device Control System Using ARM Microcontroller-SAMA5D3Xplained Created a User-Interface that can be used to control electronic devices which are connected via Ethernet. Got acquainted with Embedded C and Html

PROJECTS

- Optic Disk and Cup Segmentation in Fundus Images using Convolutional Neural Networks and Image processing techniques for faster and efficient diagnosis of glaucoma (Aug 2018-Dec 2018)
- End to End Development of Devanagari script letter Classification using Convolutional Neural Networks and MEAN stack. (Oct 2018-Nov 2018)
  Link to Interactive web-page/model: https://morning-anchorage-56517.herokuapp.com
  Git-Hub: https://github.com/bharath000/devanagari
- Implemented an efficient File Search Algorithm over a Local MP3 Database in MATLAB using Audio Finger Printing Technique. (Aug 2017 –Nov2017)
- Development of an online Interpolation Caluculator which computes Newton's forward and backward differences. (Aug 2017-Nov 2017)
  Git-Hub: https://github.com/bharath000/Interpolation-caluculator
- Designed and developed frontend for more than four websites, online fare calculator for distance transported using HTML, Jquery, Javascript, Bootstrap, Angular JS (Aug 2017-Dec 2019)
  Git-Hub: https://github.com/bharath000/

MOOC CERTIFICATIONS:

- Machine Learning.
- Data Science using Python by Michigan University.
- Applied plotting, charting and data representation in python
- Applied Machine Learning in python
- Applied text mining in python
- Advanced Machine Learning/Deep Learning using TensorFlow
  https://www.coursera.org/account/accomplishments/certificate/YZ8QZFV5RJM2
- SQL for data science
- Web Development(html, css, Javascript)
- Practical PHP for Dynamic Webpages

TECHNICAL SKILLS

- ***Programming Languages*****:** Python**,** MATLAB, C, C++ (Learning), and Verilog.
- ***Machine Learning/Deep Learning*****:** Numpy, Pandas, Sci-kit Learn, Scipy, Keras, Jupyter Notebooks, Spyder, Tensor Flow, Py Torch,Tensorflow
- ***Software's/Tools*****:** Anaconda, Mentor Graphics for DFT, Xilinx Vivado, Proteus.
- ***Web Development:*** Html, CSS, CSS3, Javascript, Bootstrap, MEAN (Mongo DB, Express JS, Angular JS, Node JS), and also familiar with JQuery, PHP, MySQL, Apache-Cordova, Ionic for multiple platform app development, Adobe illustrator (SVG).

AREAS OF INTEREST

- Machine Learning/Deep Learning, NLP, Computer Vision, AI
- Data Science and Big Data Engineering
- Full stack development/Web application development
- Algorithms and Data structures

EXTRA-CURRICULAR ACTIVITIES

- Participated in Radio Controlled Nitro Car event as a team in tech fests of IIT Guwahati, NIT Warangal and BITS Pilani Hyderabad.
- Participated in Jarvis Machine Learning event of Shaastra, IIT Madras Tech Fest.
- Avid sportsman in Badminton, Chess and Bowling.